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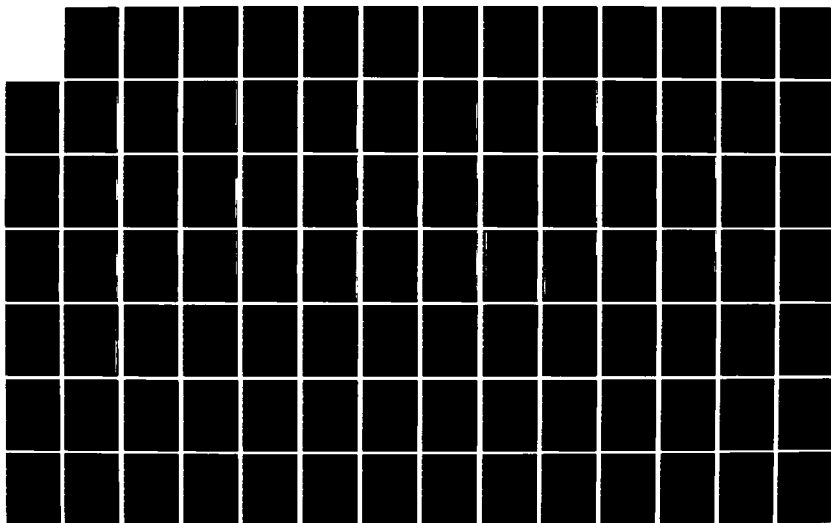
AMMUNITION RESUPPLY MODEL VOLUME 3 STANDARD EUROPEAN  
HEAVY DIVISION DATA BASE(U) COMBINED ARMS OPERATIONS  
RESEARCH ACTIVITY FORT LEAVENWORTH K. C. HARRIS MAY 83  
CAORA/TR-6/83-VOL-3

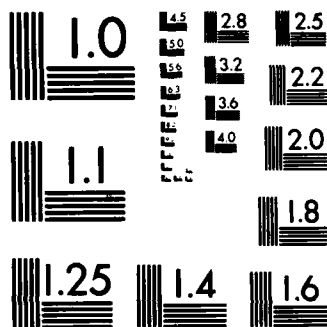
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**AMMUNITION RESUPPLY MODEL  
STANDARD EUROPEAN HEAVY DIVISION DATA BASE  
VOLUME III**

**TECHNICAL REPORT 6/83**

**UNITED STATES ARMY  
COMBINED ARMS CENTER**

**DIRECTORATE OF STUDIES AND ANALYSIS  
COMBINED ARMS OPERATIONS RESEARCH ACTIVITY  
FORT LEAVENWORTH, KS 66027**

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Included find your copy or copies of the latest (May 1983) three volume documentation of the CAORA developed Ammunition Resupply Model. For those not already familiar with the system, this supercedes all previous ARM documentation. For others it extends earlier documentation to include several significant program modifications and the use of a different computer system.

1 Encl

RONALD G. MAGEE  
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## Errata Sheet

P. 69 of Volume I ARM Methodology and User's Manual should be replaced with the following:

<u>USER RESPONSES AND SYSTEM MESSAGES</u>	<u>REMARKS</u>
ENTER NUMBER OF ACTIVE ATPS <u>6</u>	
ENTER NUMBER OF ACTIVE ASPS <u>4</u>	
TIME = 2160.05 ?	Current simulation time menu option
<u>4</u>	The RETURN option
TIME = 2160.1	This is the end of simulation time
SSG ARMPL.FREE, THEN SSG ARMPL. EDITYES	To remind the user. This now begins a process of editing data for following CI.
<u>@ SSG ARMPL.FREE</u>	Putting ARMPL.FREE into machine readable form.
SSG 20R1 S74T27	Machine reply
<u>SGS</u>	To input information to SSG.
<u>FREE CI(N)</u> <u>@</u>	Tells machine which files to free.
END SSG ERRORS 0/0/0 RETAIN LEVEL 1.2	End of input files are now free and symmed to the printer
<u>@ SSG ARMPL.EDITYES</u>	Putting ARMPL.EDITYES into machine.
SSG 20R1574T27	Above entry processed to input CI nos to SSG.
<u>EDIT CI(N), CI (N+1)</u>	CI(N) to be edited and renamed CI(N+1)
<u>@ XOT ARMPL.EDIT</u> ZERO COUNTERS (YES or NO) <u>YES</u> ???	Execute the EDIT program  EDIT menu option. This is now the same as in previous chapter Building and Editing data files.

Technical Report TR 6-83  
May 1983

Directorate of Studies and Analysis  
US Army Combined Arms Operations Research Activity  
Fort Leavenworth, KS 66027

AMMUNITION RESUPPLY MODEL

VOLUME III


STANDARD EUROPEAN HEAVY DIVISION DATA BASE


by

Mr. Clyde Harris

ACN 65676

Approved by:

  
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Director, S&AD

  
JOHN L. BALLANTYNE  
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Commander, CAORA

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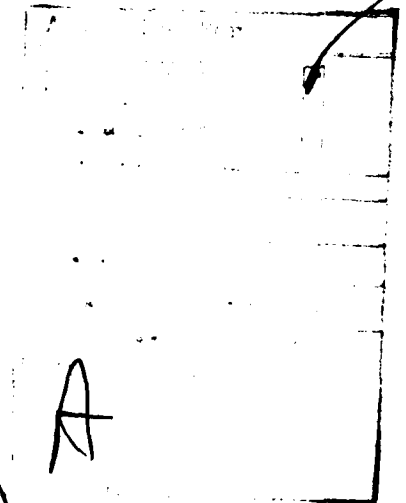
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War Game Ammunition Resupply Ammunition Consumption Europe III Data Base		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number)		
<p>This report is one of three produced to document the Ammunition Resupply Model (ARM). Volume I is the Methodology and User's Manual. Volume II is the Programmer's Manual. Volume III contains all the values for an initial standard European heavy division data base, as well as computer listings, and data sources for those values. All remaining data needed for ARM to run the SCORES Europe III 2A and 2A Extended Scenarios is also included.</p>		

AMMUNITION RESUPPLY MODEL  
STANDARD EUROPEAN HEAVY DIVISION DATA BASE  
VOLUME III

ABSTRACT

This is the third and concluding volume of the Ammunition Resupply Model (ARM) documentation. It contains all the values for an initial standard European heavy division data base, as well as computer listings, explanations, and data sources for those values. For further information concerning ARM, Volume 1 - Methodology and User's Manual and Volume 2 - Programmer's Manual, should be consulted.



AMMUNITION RESUPPLY MODEL  
STANDARD EUROPEAN HEAVY DIVISION DATA BASE  
VOLUME III

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AMMUNITION RESUPPLY MODEL  
STANDARD EUROPEAN HEAVY DIVISION DATA BASE  
VOLUME III

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## VOLUME III. STANDARD EUROPEAN HEAVY DIVISION DATA BASE

1. Introduction. The purpose of this third and final volume of the ARM documentation is to present and explain an initial ARM data base for a standard European heavy division. This volume covers the various elements of the data base in the order: demand files, distance files, ASP/ATP data, unit data, truck data, ammo data, and miscellaneous data. Each element is described by a brief overview, explanations and examples of the element printouts, a presentation of the numerical values which have been entered into that element, and the sources from which those values were derived. Where multiple sources are listed, they should not be thought of as independent. All were required to fulfill the data need. They are listed in order of importance. The key for data sources is in chapter 11. ARM codes and tables are listed in Chapter 10.

### 2. Demand Files.

a. Overview. In the running of each CI ARM processes a demand file. This file is encountered in Volume I, Chapter 6 as the LOG(N) file. The data it contains may come from the output of a war game or, when running in the ARM stand-alone mode, may be generated in any way necessary to reflect a particular scenario. All ARM requires is data in the format it expects.

b. Printouts and Explanations. Listing 1 is the demand file printout for the 75 ARM units through 15 CIs or 3 days of simulated combat. In the left-hand column of the printout are the 75 unit names. Associated with each unit is a data matrix with 5 columns and 6 rows. The columns are, in order: ammo type, number of weapons alive, number of weapons short of ammo, number of attack helicopters per cell (number of helicopters sent out per flight) and total demand (rounds shot). The last row is not used unless there are helicopters associated with the unit. The unit names are those used in the war game or scenario. The source for the ammo codes is the ammo code table of Chapter 10. The number of weapons alive is initially set by the gamer in accordance with the scenario and is thereafter updated through war game or scenario output. The number of weapons short of ammo is initialized to zero and then set by war game or scenario output. The demand is based upon a random draw from a demand window provided by the TRADOC combat arms schools. This window consists of two values, a high and low number of rounds expended for a particular CI. The number drawn is then modified to reflect such things as night or day, combat intensity, MOPP factor and visibility. The program that accomplishes this is discussed in Volume I, Chapter 4.

### Listing 1. Demand File (CI 1)

Item	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
1. YF1A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
2. YF2A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
3. YF3A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
4. YF4A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
5. YF5A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
6. YF6A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
7. YF7A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
8. YF8A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
9. YF9A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
10. YF10A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
11. YF11A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
12. YF12A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
13. YF13A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
14. YF14A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
15. YF15A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
16. YF16A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
17. YF17A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
18. YF18A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17									

27. C13FA

4 5 11 11 13 13  
5 5 5 5 5 5  
5 5 5 5 5 5  
26 97 18 7 28 J

36. C16FA

4 5 11 11 13 13  
5 5 5 5 5 5  
5 5 5 5 5 5  
0 0 0 0 0 0

45. C19FA

4 5 11 11 13 13  
5 5 5 5 5 5  
5 5 5 5 5 5  
0 0 0 0 0 0

28. A14FA

4 5 11 11 13 13  
8 8 8 8 8 8  
8 8 8 8 8 8  
49 180 33 13 52 J

37. A17FA

4 5 11 11 13 13  
8 8 8 8 8 8  
8 8 8 8 8 8  
0 0 0 0 0 0

46. A21FA

4 5 11 11 13 13  
8 8 8 8 8 8  
8 8 8 8 8 8  
0 0 0 0 0 0

29. B14FA

4 5 11 11 13 13  
8 8 8 8 8 8  
8 8 8 8 8 8  
54 198 76 14 58 J

38. B17FA

4 5 11 11 13 13  
8 8 8 8 8 8  
8 8 8 8 8 8  
0 0 0 0 0 0

47. B20FA

4 5 11 11 13 13  
8 8 8 8 8 8  
8 8 8 8 8 8  
0 0 0 0 0 0

30. C14FA

4 5 11 11 13 13  
8 8 8 8 8 8  
8 8 8 8 8 8  
106 367 70 28 113 J

39. C17FA

4 5 11 11 13 13  
8 8 8 8 8 8  
8 8 8 8 8 8  
0 0 0 0 0 0

48. C21FA

4 5 11 11 13 13  
8 8 8 8 8 8  
8 8 8 8 8 8  
0 0 0 0 0 0

31. A15FA

4 5 11 11 13 13  
8 8 8 8 8 8  
8 8 8 8 8 8  
31 114 21 8 33 J

40. A18FA

4 5 11 11 13 13  
8 8 8 8 8 8  
8 8 8 8 8 8  
0 0 0 0 0 0

49. A21FA

4 5 11 11 13 13  
8 8 8 8 8 8  
8 8 8 8 8 8  
0 0 0 0 0 0

32. B15FA

4 5 11 11 13 13  
8 8 8 8 8 8  
8 8 8 8 8 8  
51 334 61 24 97 J

41. B18FA

4 5 11 11 13 13  
8 8 8 8 8 8  
8 8 8 8 8 8  
0 0 0 0 0 0

50. B21FA

4 5 11 11 13 13  
8 8 8 8 8 8  
8 8 8 8 8 8  
0 0 0 0 0 0

33. C15FA

4 5 11 11 13 13  
8 8 8 8 8 8  
8 8 8 8 8 8  
41 150 27 11 44 J

42. C18FA

4 5 11 11 13 13  
8 8 8 8 8 8  
8 8 8 8 8 8  
0 0 0 0 0 0

51. C21FA

4 5 11 11 13 13  
8 8 8 8 8 8  
8 8 8 8 8 8  
0 0 0 0 0 0

34. A16FA

4 5 11 11 13 13  
8 8 8 8 8 8  
8 8 8 8 8 8  
61 24 41 16 65 J

43. A19FA

4 5 11 11 13 13  
8 8 8 8 8 8  
8 8 8 8 8 8  
0 0 0 0 0 0

52. A22FA

4 5 11 11 13 13  
8 8 8 8 8 8  
8 8 8 8 8 8  
0 0 0 0 0 0

35. B16FA

4 5 11 11 13 13  
8 8 8 8 8 8  
8 8 8 8 8 8  
68 251 40 18 73 J

44. B19FA

4 5 11 11 13 13  
8 8 8 8 8 8  
8 8 8 8 8 8  
0 0 0 0 0 0

53. B22FA

4 5 11 11 13 13  
8 8 8 8 8 8  
8 8 8 8 8 8  
0 0 0 0 0 0





**Listing 1. Demand File (Cont'd) - (CI 2)**

Listing 1. Demand Rate (Cont'd)		Time (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate 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(Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)		Rate (Cont'd)			
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**Listing 1. Demand File (Cont'd) - (CI 3)**

[illegible]

[illegible]



Listing 1. Demand File (Cont'd) - (CI 4)

Listing 1. Demand File (Cont'd) - (CI 4)									
1. IF1A	1	27	8	0	96				
	2	1	1	3	2	10. TF3M			
	25	10	3	0	3				
	16	6	6	0	336				
	17	11	4	0	216				
	1	3	0	0	0				
2. IF2A	1	24	16	0	410				
	2	5	4	0	20	11. TF2M			
	25	8	6	0	32				
	16	4	4	0	344				
	17	13	12	0	3060				
	1	3	0	0	0				
3. IF3A	1	29	13	0	234	12. TF4M			
	2	1	4	0	5				
	25	11	4	0	12				
	16	5	0	0	260				
	17	12	5	0	1085				
	1	0	0	0	0				
4. IF4A	1	40	13	0	26	14. TFSM			
	2	6	3	0	6				
	25	13	4	0	4				
	16	6	6	0	234				
	17	19	7	0	1925				
	1	0	0	0	0				
5. IF5A	1	35	17	0	136	14. TFSM			
	2	5	0	0	0				
	25	15	0	0	0				
	16	6	6	0	174				
	17	15	0	0	0				
	1	0	0	0	0				
6. IF6A	1	39	20	0	120	15. L2ACR			
	2	5	4	0	4				
	25	11	8	0	8				
	16	6	6	0	138				
	17	16	12	0	1788				
	1	0	0	0	0				
7. IF7A	1	0	0	0	0	16. L3ACR			
	2	0	0	0	0				
	25	0	0	0	0				
	16	0	0	0	0				
	17	0	0	0	0				
	1	0	0	0	0				
8. IF8A	1	0	0	0	0	17. FA12ACR			
	2	0	0	0	0				
	25	0	0	0	0				
	16	0	0	0	0				
	17	0	0	0	0				
	1	0	0	0	0				
9. IF9A	1	21	18	0	540				
	2	14	12	0	72				
	25	20	17	0	102				
	16	6	6	0	04				

[illegible]





**Listing 1. Demand File (Cont'd) - (CI 5)**

[illegible]

[illegible]

71. 13ADA  
 72. 1ACAS  
 73. 2ACAS  
 74. 3ACAS  
 75.

62. P21FA  
 63. C21FA  
 64. A26FA  
 65. P26FA  
 66. C26FA  
 67. A1ALA  
 68. B1ALA  
 69. C1ADA  
 70. 12ADA

54. C22FA  
 55. A27FA  
 56. P27FA  
 57. C27FA  
 58. A28FA  
 59. B28FA  
 60. C28FA  
 61. A29FA

Listing 1. Demand File (Cont'd) - (CI 6)

[illegible]





Listing 1. Demand File (Cont'd) - (CI 7)

[illegible]



[illegible]

[illegible]

Listing 1. Demand File (Cont'd) - (CI 8)

[illegible]

[illegible]



Listing 1. Demand File (Cont'd) - (CI 9)

Listing 1. Demand File (Cont'd) - (CI 9)

1. 1F1A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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[illegible]

Item	Code	Material	Quantity	Unit	Weight	Volume	Value	Notes
52.	B25FA		16	1	1.00	1.00	1.00	
53.	C25FA		14	1	1.00	1.00	1.00	
54.	A26FA		16	1	1.00	1.00	1.00	
55.	A23FA		10	1	1.00	1.00	1.00	
56.	B27FA		16	1	1.00	1.00	1.00	
57.	C24FA		16	1	1.00	1.00	1.00	
58.	A24FA		16	1	1.00	1.00	1.00	
59.	B24FA		16	1	1.00	1.00	1.00	
60.	C24FA		16	1	1.00	1.00	1.00	
61.	A25FA		16	1	1.00	1.00	1.00	
62.	B25FA		16	1	1.00	1.00	1.00	
63.	C25FA		14	1	1.00	1.00	1.00	
64.	A26FA		16	1	1.00	1.00	1.00	
65.	B26FA		16	1	1.00	1.00	1.00	
66.	C26FA		16	1	1.00	1.00	1.00	
67.	A18UA		16	1	1.00	1.00	1.00	
68.	B18UA		16	1	1.00	1.00	1.00	
69.	C18UA		16	1	1.00	1.00	1.00	
70.	A20UA		16	1	1.00	1.00	1.00	
71.	B20UA		16	1	1.00	1.00	1.00	
72.	C20UA		14	1	1.00	1.00	1.00	
73.	A22UA		16	1	1.00	1.00	1.00	
74.	B22UA		16	1	1.00	1.00	1.00	
75.	C22UA		16	1	1.00	1.00	1.00	



Listing 1. Demand File (Cont'd) - (CI 10)

[illegible]





# Listing 1. Demand File (Cont'd) - (CI 11)

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	32.	33.	34.	35.	36.	37.	38.	39.	40.	41.	42.	43.	44.	45.	46.	47.	48.	49.	50.	51.	52.	53.	54.	55.	56.	57.	58.	59.	60.	61.	62.	63.	64.	65.	66.	67.	68.	69.	70.	71.	72.	73.	74.	75.	76.	77.	78.	79.	80.	81.	82.	83.	84.	85.	86.	87.	88.	89.	90.	91.	92.	93.	94.	95.	96.	97.	98.	99.	100.	101.	102.	103.	104.	105.	106.	107.	108.	109.	110.	111.	112.	113.	114.	115.	116.	117.	118.	119.	120.	121.	122.	123.	124.	125.	126.	127.	128.	129.	130.	131.	132.	133.	134.	135.	136.	137.	138.	139.	140.	141.	142.	143.	144.	145.	146.	147.	148.	149.	150.	151.	152.	153.	154.	155.	156.	157.	158.	159.	160.	161.	162.	163.	164.	165.	166.	167.	168.	169.	170.	171.	172.	173.	174.	175.	176.	177.	178.	179.	180.	181.	182.	183.	184.	185.	186.	187.	188.	189.	190.	191.	192.	193.	194.	195.	196.	197.	198.	199.	200.	201.	202.	203.	204.	205.	206.	207.	208.	209.	210.	211.	212.	213.	214.	215.	216.	217.	218.	219.	220.	221.	222.	223.	224.	225.	226.	227.	228.	229.	230.	231.	232.	233.	234.	235.	236.	237.	238.	239.	240.	241.	242.	243.	244.	245.	246.	247.	248.	249.	250.	251.	252.	253.	254.	255.	256.	257.	258.	259.	260.	261.	262.	263.	264.	265.	266.	267.	268.	269.	270.	271.	272.	273.	274.	275.	276.	277.	278.	279.	280.	281.	282.	283.	284.	285.	286.	287.	288.	289.	290.	291.	292.	293.	294.	295.	296.	297.	298.	299.	300.	301.	302.	303.	304.	305.	306.	307.	308.	309.	310.	311.	312.	313.	314.	315.	316.	317.	318.	319.	320.	321.	322.	323.	324.	325.	326.	327.	328.	329.	330.	331.	332.	333.	334.	335.	336.	337.	338.	339.	340.	341.	342.	343.	344.	345.	346.	347.	348.	349.	350.	351.	352.	353.	354.	355.	356.	357.	358.	359.	360.	361.	362.	363.	364.	365.	366.	367.	368.	369.	370.	371.	372.	373.	374.	375.	376.	377.	378.	379.	380.	381.	382.	383.	384.	385.	386.	387.	388.	389.	390.	391.	392.	393.	394.	395.	396.	397.	398.	399.	400.	401.	402.	403.	404.	405.	406.	407.	408.	409.	410.	411.	412.	413.	414.	415.	416.	417.	418.	419.	420.	421.	422.	423.	424.	425.	426.	427.	428.	429.	430.	431.	432.	433.	434.	435.	436.	437.	438.	439.	440.	441.	442.	443.	444.	445.	446.	447.	448.	449.	450.	451.	452.	453.	454.	455.	456.	457.	458.	459.	460.	461.	462.	463.	464.	465.	466.	467.	468.	469.	470.	471.	472.	473.	474.	475.	476.	477.	478.	479.	480.	481.	482.	483.	484.	485.	486.	487.	488.	489.	490.	491.	492.	493.	494.	495.	496.	497.	498.	499.	500.	501.	502.	503.	504.	505.	506.	507.	508.	509.	510.	511.	512.	513.	514.	515.	516.	517.	518.	519.	520.	521.	522.	523.	524.	525.	526.	527.	528.	529.	530.	531.	532.	533.	534.	535.	536.	537.	538.	539.	540.	541.	542.	543.	544.	545.	546.	547.	548.	549.	550.	551.	552.	553.	554.	555.	556.	557.	558.	559.	560.	561.	562.	563.	564.	565.	566.	567.	568.	569.	570.	571.	572.	573.	574.	575.	576.	577.	578.	579.	580.	581.	582.	583.	584.	585.	586.	587.	588.	589.	590.	591.	592.	593.	594.	595.	596.	597.	598.	599.	600.	601.	602.	603.	604.	605.	606.	607.	608.	609.	610.	611.	612.	613.	614.	615.	616.	617.	618.	619.	620.	621.	622.	623.	624.	625.	626.	627.	628.	629.	630.	631.	632.	633.	634.	635.	636.	637.	638.	639.	640.	641.	642.	643.	644.	645.	646.	647.	648.	649.	650.	651.	652.	653.	654.	655.	656.	657.	658.	659.	660.	661.	662.	663.	664.	665.	666.	667.	668.	669.	670.	671.	672.	673.	674.	675.	676.	677.	678.	679.	680.	681.	682.	683.	684.	685.	686.	687.	688.	689.	690.	691.	692.	693.	694.	695.	696.	697.	698.	699.	700.	701.	702.	703.	704.	705.	706.	707.	708.	709.	710.	711.	712.	713.	714.	715.	716.	717.	718.	719.	720.	721.	722.	723.	724.	725.	726.	727.	728.	729.	730.	731.	732.	733.	734.	735.	736.	737.	738.	739.	740.	741.	742.	743.	744.	745.	746.	747.	748.	749.	750.	751.	752.	753.	754.	755.	756.	757.	758.	759.	760.	761.	762.	763.	764.	765.	766.	767.	768.	769.	770.	771.	772.	773.	774.	775.	776.	777.	778.	779.	780.	781.	782.	783.	784.	785.	786.	787.	788.	789.	790.	791.	792.	793.	794.	795.	796.	797.	798.	799.	800.	801.	802.	803.	804.	805.	806.	807.	808.	809.	810.	811.	812.	813.	814.	815.	816.	817.	818.	819.	820.	821.	822.	823.	824.	825.	826.	827.	828.	829.	830.	831.	832.	833.	834.	835.	836.	837.	838.	839.	840.	841.	842.	843.	844.	845.	846.	847.	848.	849.	850.	851.	852.	853.	854.	855.	856.	857.	858.	859.	860.	861.	862.	863.	864.	865.	866.	867.	868.	869.	870.	871.	872.	873.	874.	875.	876.	877.	878.	879.	880.	881.	882.	883.	884.	885.	886.	887.	888.	889.	890.	891.	892.	893.	894.	895.	896.	897.	898.	899.	900.	901.	902.	903.	904.	905.	906.	907.	908.	909.	910.	911.	912.	913.	914.	915.	916.	917.	918.	919.	920.	921.	922.	923.	924.	925.	926.	927.	928.	929.	930.	931.	932.	933.	934.	935.	936.	937.	938.	939.	940.	941.	942.	943.	944.	945.	946.	947.	948.	949.	950.	951.	952.	953.	954.	955.	956.	957.	958.	959.	960.	961.	962.	963.	964.	965.	966.	967.	968.	969.	970.	971.	972.	973.	974.	975.	976.	977.	978.	979.	980.	981.	982.	983.	984.	985.	986.	987.	988.	989.	990.	991.	992.	993.	994.	995.	996.	997.	998.	999.	1000.
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Listing 1. Demand File (Cont'd) - (CI 12)

Listing 1. Demand File (Cont'd) - (CI 12)									
1. TF1A	1	13	13	0	91				
	25	5	5	0	3				
	16	8	8	0	72	10. TF3M			
	17	5	5	0	45				
	1	0	0	0	0				
2. TF2A	1	0	0	0	0				
	25	0	0	0	0				
	16	0	0	0	0				
	17	0	0	0	0				
3. TF3A	1	18	16	0	192				
	2	2	2	0	6				
	25	5	5	0	13				
	16	3	3	0	168				
	17	7	7	0	777				
	1	0	0	0	0				
4. TF4A	1	13	19	0	171				
	2	2	3	0	3				
	25	13	6	0	12				
	16	5	5	0	132				
	17	19	9	0	45				
	1	0	0	0	0				
5. TF5A	1	13	24	0	48				
	2	5	3	0	9				
	25	10	7	0	70				
	16	4	4	0	50				
	17	15	1	0	0				
	1	16	0	0	0				
6. TF6A	1	16	0	0	0				
	2	6	0	0	18				
	25	9	0	0	11				
	16	4	0	0	1225				
	17	15	0	0	0				
	1	0	0	0	0				
7. TF7A	1	26	16	0	54				
	2	6	4	0	2				
	25	20	14	0	14				
	16	6	0	0	260				
	17	0	0	0	0				
	1	0	0	0	0				
8. TF8A	1	0	0	0	0				
	2	1	1	0	0				
	25	9	0	0	14				
	16	0	0	0	313				
	17	0	0	0	400				
	1	0	0	0	0				
9. TF9A	1	16	1	0	0				
	2	10	1	0	0				
	25	10	0	0	0				
	16	0	0	0	0				
	17	0	0	0	0				
	1	0	0	0	0				
10. TF10A	1	16	1	0	0				
	2	10	1	0	0				
	25	10	0	0	0				
	16	0	0	0	0				
	17	0	0	0	0				
	1	0	0	0	0				







Listing 1. Demand File (Cont'd) - (CI 13)

[illegible]

Case No.	Case Name	Case Type	Case Status	Case Date	Case Time	Case Location	Case Description	Case Notes	Case Comments
27.	C13FA	Case 1	Open	11/13/2013	11:13	11/13/2013	11:13	11/13/2013	11:13
28.	A14FA	Case 2	Open	11/13/2013	11:13	11/13/2013	11:13	11/13/2013	11:13
29.	B14FA	Case 3	Open	11/13/2013	11:13	11/13/2013	11:13	11/13/2013	11:13
30.	C14FA	Case 4	Open	11/13/2013	11:13	11/13/2013	11:13	11/13/2013	11:13
31.	A15FA	Case 5	Open	11/13/2013	11:13	11/13/2013	11:13	11/13/2013	11:13
32.	B15FA	Case 6	Open	11/13/2013	11:13	11/13/2013	11:13	11/13/2013	11:13
33.	C15FA	Case 7	Open	11/13/2013	11:13	11/13/2013	11:13	11/13/2013	11:13
34.	A16FA	Case 8	Open	11/13/2013	11:13	11/13/2013	11:13	11/13/2013	11:13
35.	B16FA	Case 9	Open	11/13/2013	11:13	11/13/2013	11:13	11/13/2013	11:13
36.	C16FA	Case 10	Open	11/13/2013	11:13	11/13/2013	11:13	11/13/2013	11:13
37.	A17FA	Case 11	Open	11/13/2013	11:13	11/13/2013	11:13	11/13/2013	11:13
38.	B17FA	Case 12	Open	11/13/2013	11:13	11/13/2013	11:13	11/13/2013	11:13
39.	C17FA	Case 13	Open	11/13/2013	11:13	11/13/2013	11:13	11/13/2013	11:13
40.	A18FA	Case 14	Open	11/13/2013	11:13	11/13/2013	11:13	11/13/2013	11:13
41.	B18FA	Case 15	Open	11/13/2013	11:13	11/13/2013	11:13	11/13/2013	11:13
42.	C18FA	Case 16	Open	11/13/2013	11:13	11/13/2013	11:13	11/13/2013	11:13
43.	A19FA	Case 17	Open	11/13/2013	11:13	11/13/2013	11:13	11/13/2013	11:13
44.	B19FA	Case 18	Open	11/13/2013	11:13	11/13/2013	11:13	11/13/2013	11:13
45.	C19FA	Case 19	Open	11/13/2013	11:13	11/13/2013	11:13	11/13/2013	11:13
46.	A20FA	Case 20	Open	11/13/2013	11:13	11/13/2013	11:13	11/13/2013	11:13
47.	B20FA	Case 21	Open	11/13/2013	11:13	11/13/2013	11:13	11/13/2013	11:13
48.	C20FA	Case 22	Open	11/13/2013	11:13	11/13/2013	11:13	11/13/2013	11:13
49.	A21FA	Case 23	Open	11/13/2013	11:13	11/13/2013	11:13	11/13/2013	11:13
50.	B21FA	Case 24	Open	11/13/2013	11:13	11/13/2013	11:13	11/13/2013	11:13
51.	C21FA	Case 25	Open	11/13/2013	11:13	11/13/2013	11:13	11/13/2013	11:13
52.	A22FA	Case 26	Open	11/13/2013	11:13	11/13/2013	11:13	11/13/2013	11:13
53.	B22FA	Case 27	Open	11/13/2013	11:13	11/13/2013	11:13	11/13/2013	11:13



11A

Listing 1. Demand File (Cont'd) - (CI 14)									
1. IP1A	2. IP1A	3. IP1A	4. IP1A	5. IP1A	6. IP1A	7. IP1A	8. IP1A	9. IP1A	10. IP1A
1	11	11	1	77					
2	3	3	3						
25	5	5	5	10					
15	8	8	8	531					
17	5	5	5	890					
	0	0	0	0					
1	10	11	0	33					
2	3	3	3	9					
25	5	5	5	5					
16	3	3	3	67					
17	8	8	8	272					
	0	0	0	0					
1	21	3	0	34					
2	4	2	3	16					
25	8	2	0	6					
16	14	0	0	0					
17	12	4	0	1,384					
	0	0	0	0					
1	25	16	0	34					
2	6	5	1	5					
25	12	8	1	8					
16	4	4	3	41					
17	18	13	0	416					
	0	0	0	0					
1	33	10	0	259					
2	5	3	1	9					
25	8	5	0	5					
16	4	4	3	143					
17	13	8	3	120					
	0	0	0	0					
1	30	0	0	5					
2	6	1	0	1					
25	11	0	0	0					
16	4	0	0	0					
17	17	0	0	0					
	0	0	0	0					
1	25	18	0	72					
2	6	6	0	30					
25	24	12	1	36					
16	6	6	1	552					
17	30	18	0	2838					
	0	0	0	0					
1	7	7	0	7					
2	1	1	0	4					
25	9	5	0	18					
16	10	10	0	2,00					
17	5	5	0	45					
	0	0	0	0					
1	14	12	0	35					
2	14	1	0	0					
25	19	14	0	29					
16	5	5	0	43					
17	1	1	0	1					

27. 01342

28. - 147 A

29. 3144 A

3. C144A

31. ALFA

51. 5151

35. C15FA

5. 6. 6

31. 21.6.22

35. Class A

57. A: 7FA

53. 827FA

39. C17F1

100

41. 513FA

42. Claf 1

43. ABFA

2 JAN 45

4. CIVIL

4b. A 4114 A

21. 5. 44

211

19. A-IFA

• b7FA

1. Cc:FA

20. A < 21 A

5. 6.24.3



**Listing 1. Demand File (Cont'd) - (CI 15)**

Listing 1. Demand File (Cont'd) - (CI 15)									
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
1.	13	11	135						10. 113M
2.	5	3	33						
3.	5	5	5						
4.	10	10	9	9	7				
5.	17	5	5	245					
6.	0	0	0	0					
7.	13	11	7	111					11. 112M
8.	5	3	7	15					
9.	5	5	7	20					
10.	13	3	3	147					
11.	14	8	3	391					
12.	0	0	0	0					
13.	24	3	7	39					12. 114M
14.	5	1	2	2					
15.	9	1	3						
16.	4	0	0						
17.	14	2	7	198					
18.	0	0	0						
19.	27	9	0	10					13. 115M
20.	6	5	0	13					
21.	12	9	0	9					
22.	4	4	0	14					
23.	18	14	0	294					
24.	0	0	0	0					
25.	34	22	0	403					14. 116M
26.	5	3	0	9					
27.	8	0	0	15					
28.	4	4	0	212					
29.	13	0	0	1792					
30.	0	0	0	0					
31.	35	0	0	3					15. 117M
32.	6	0	0	0					
33.	11	0	0	0					
34.	4	0	0	0					
35.	17	0	0	0					
36.	0	0	0	0					
37.	20	20	0	20					16. 118M
38.	6	2	0	6					
39.	23	15	0	15					
40.	6	0	0	246					
41.	29	17	0	1479					
42.	0	0	0	0					
43.	10	0	0	2					17. 119M
44.	3	0	0	12					
45.	11	0	0	6					
46.	14	0	0	250					
47.	5	0	0	675					
48.	0	0	0	0					
49.	14	11	0	13					18. 120M
50.	14	0	0	13					
51.	18	13	0	13					
52.	4	4	0	102					



27. C16FA

113 460 78

36. C16FA

4 5 11 12 13

1 1 1 1 1

45. C19FA

12 13

10 10

28. A16FA

5 6 11 12 13

37. A17FA

6 7 12 13

7 7 7 7

46. A17FA

4 5 12 13

171 697 111 43 45 0

29. B16FA

5 5 11 12 13

38. B17FA

6 7 12 13

6 6 6 6

47. B20FA

4 5 12 13

57 204 35 33 11 0

3. C16FA

5 5 11 12 13

39. C17FA

6 7 12 13

6 6 6 6

48. C21FA

4 5 12 13

33 135 23 8 0

31. A16FA

5 5 11 12 13

41. A16FA

6 7 12 13

6 6 6 6

49. A21FA

4 5 12 13

15 50 9 0 0

32. B16FA

5 5 11 12 13

41. B16FA

6 7 12 13

6 6 6 6

5. B21FA

4 5 12 13

30 103 18 0 0

34. C16FA

5 5 11 12 13

47. C18FA

6 7 12 13

6 6 6 6

51. C21FA

4 5 12 13

33 46 8 0 0

35. A16FA

5 5 11 12 13

43. A16FA

4 5 12 13

8 8 8 8

52. A22FA

4 5 12 13

12 12 3-5 0 0

36. B16FA

5 5 11 12 13

44. B16FA

4 5 12 13

4 4 4 4

53. A22FA

4 5 12 13

14 0 0 0

[illegible]

### 3. Distance Files.

a. Overview. In every CI a distance file is read into the IUNIT array. It is used to establish the distance from the center of mass of the batteries or maneuver units to their servicing ASP/ATP. This is done for all units.

b. Printouts and Explanations. Listing 2 is the distance file printout for units 1-75 and CIs 1-15. The final distances were established by actually measuring them on a map, taking the shortest distance modified by judicious use of the existing road network. The initial straight line distances were supplied by the MMCS. The between CI distances should be modified, if necessary, according to the specific scenario employed. Procedures for doing so can be found in Volume I, Chapter 5.

# Listing 2. Distance File

CI 1					CI 2				
UNIT	ATP	ASP	ATP DIST	ASP DIST	UNIT	ATP	ASP	ATP DIST	ASP DIST
1	3	12	26	58	1	3	12	26	58
2	2	14	23	55	2	2	14	20	57
3	1	11	34	67	3	1	11	37	67
4	2	14	12	43	4	2	14	12	43
5	3	13	10	45	5	3	13	10	45
6	3	13	14	49	6	3	13	14	49
7	1	15	20	95	7	1	15	20	95
8	1	12	25	39	8	1	12	25	39
9	2	14	22	42	9	2	14	22	42
10	1	11	27	37	10	1	11	27	37
11	1	11	16	41	11	1	11	16	41
12	2	16	38	66	12	2	16	38	66
13	1	12	25	56	13	1	12	25	56
14	1	15	27	56	14	1	15	27	56
15	6	12	30	63	15	6	12	30	63
16	6	13	17	61	16	6	13	11	58
17	6	12	22	55	17	6	12	22	55
18	6	13	15	60	18	6	13	4	51
19	1	11	27	59	19	1	11	21	53
20	1	11	27	59	20	1	11	21	53
21	1	11	27	59	21	1	11	21	53
22	2	14	21	56	22	2	14	18	46
23	2	14	21	56	23	2	14	18	46
24	2	14	21	56	24	2	14	18	46
25	3	12	18	52	25	3	12	12	46
26	3	12	18	52	26	3	12	12	46
27	3	12	18	52	27	3	12	12	46
28	3	13	23	64	28	3	13	18	54
29	3	13	23	64	29	3	13	18	54
30	3	13	23	64	30	3	13	18	54
31	2	14	15	42	31	2	14	15	42
32	2	14	15	42	32	2	14	15	42
33	2	14	15	42	33	2	14	15	42
34	1	11	18	47	34	1	11	18	47
35	1	11	18	47	35	1	11	18	47
36	1	11	18	47	36	1	11	18	47
37	5	12	34	51	37	5	12	34	51
38	5	12	34	51	38	5	12	34	51
39	5	12	31	49	39	5	12	31	46
40	4	12	24	45	40	4	12	24	45
41	4	12	24	45	41	4	12	24	45
42	4	12	20	40	42	4	12	20	40
43	1	15	18	55	43	1	15	18	55
44	1	15	18	55	44	1	15	18	55
45	1	15	18	55	45	1	15	18	55
46	3	15	12	48	46	3	15	12	48
47	3	15	12	48	47	3	15	12	48
48	3	15	12	48	48	3	15	12	48
49	5	13	15	45	49	5	13	15	45
50	5	13	15	45	50	5	13	15	45
51	5	13	15	45	51	5	13	15	45
52	4	11	30	58	52	4	11	30	50
53	4	11	30	58	53	4	11	30	50
54	4	11	30	58	54	4	11	30	50
55	5	13	23	60	55	5	13	20	60
56	5	13	23	60	56	5	13	20	60
57	5	13	23	60	57	5	13	20	60
58	4	15	24	58	58	4	15	24	58
59	4	15	24	58	59	4	15	24	58
60	4	15	24	58	60	4	15	24	58
61	5	16	49	60	61	5	16	49	60
62	5	16	49	60	62	5	16	49	60
63	5	16	49	60	63	5	16	49	60
64	4	15	32	58	64	4	15	32	58
65	4	15	32	58	65	4	15	32	58
66	4	15	32	58	66	4	15	32	58
67	0	11	0	65	67	0	11	0	62
68	0	14	0	49	68	0	14	0	46
69	0	17	0	44	69	0	17	0	39
70	0	11	0	63	70	0	11	0	63
71	0	13	0	60	71	0	13	0	56
72	4	11	27	44	72	4	11	27	44
73	4	13	25	58	73	4	13	25	58
74	0	12	0	43	74	0	12	0	43
75	**	**	***	***	75	**	**	***	***

# Listing 2. Distance File (Cont'd)

CI 3					CI 4				
UNIT	ATP	ASP	ATP DIST	ASP DIST	UNIT	ATP	ASP	ATP DIST	ASP DIST
1	3	12	12	45	1	3	12	2	35
2	2	14	17	49	2	3	14	3	31
3	3	12	18	47	3	3	12	7	41
4	2	14	12	43	4	2	14	12	41
5	3	13	10	45	5	3	13	10	45
6	3	13	14	49	6	3	13	14	45
7	1	15	20	95	7	1	15	20	95
8	1	12	25	39	8	1	12	25	39
9	2	14	22	42	9	2	14	22	42
10	1	11	27	37	10	1	11	27	37
11	1	11	16	41	11	1	11	16	41
12	2	16	38	66	12	2	16	38	66
13	1	12	25	56	13	1	12	25	56
14	1	15	27	56	14	1	15	27	56
15	6	12	30	63	15	6	12	19	53
16	6	13	16	52	16	6	13	16	52
17	6	12	22	55	17	6	12	11	45
18	6	13	9	45	18	6	13	3	38
19	1	11	15	45	19	1	11	10	40
20	1	11	15	45	20	1	11	10	40
21	1	11	15	45	21	1	11	10	40
22	2	14	18	46	22	2	14	16	45
23	2	14	18	46	23	2	14	16	46
24	2	14	18	46	24	2	14	16	46
25	3	12	8	40	25	3	12	4	46
26	3	12	8	40	26	3	12	4	39
27	3	12	8	40	27	3	12	4	39
28	3	13	18	54	28	3	13	18	54
29	3	13	18	54	29	3	13	6	34
30	3	13	18	54	30	3	13	6	34
31	2	14	8	35	31	2	14	8	31
32	2	14	8	35	32	2	14	8	31
33	2	14	8	35	33	2	14	8	31
34	1	11	18	47	34	1	11	6	30
35	1	11	18	47	35	1	11	6	30
36	1	11	18	47	36	1	11	6	30
37	5	12	4	40	37	5	12	4	40
38	5	12	4	40	38	5	12	4	40
39	5	12	3	33	39	5	12	4	40
40	4	12	13	34	40	4	12	3	33
41	4	12	13	34	41	4	12	6	34
42	4	12	20	27	42	4	12	8	24
43	1	15	18	55	43	1	15	18	55
44	1	15	18	55	44	1	15	18	55
45	1	15	18	55	45	1	15	18	55
46	3	15	12	48	46	3	15	12	48
47	3	15	12	48	47	3	15	12	48
48	3	15	12	48	48	3	15	12	48
49	5	13	9	39	49	5	13	9	39
50	5	13	9	39	50	5	13	9	39
51	5	13	9	39	51	5	13	9	39
52	4	11	24	52	52	4	11	24	52
53	4	11	24	52	53	4	11	24	52
54	4	11	24	52	54	4	11	24	52
55	5	13	17	45	55	5	13	14	45
56	5	13	17	45	56	5	13	14	45
57	5	13	17	45	57	5	13	14	45
58	4	15	24	58	58	4	15	24	58
59	4	15	24	58	59	4	15	24	58
60	4	15	24	58	60	4	15	24	58
61	5	15	49	60	61	5	15	49	60
62	5	15	49	60	62	5	15	49	60
63	5	15	49	60	63	5	15	49	60
64	4	15	32	58	64	4	15	32	58
65	4	15	32	58	65	4	15	32	58
66	4	15	32	58	66	4	15	32	58
67	0	11	0	59	67	0	11	0	59
68	0	14	0	43	68	0	14	0	36
69	0	12	0	31	69	0	12	0	31
70	0	11	0	58	70	0	11	0	40
71	0	13	0	50	71	0	13	0	38
72	4	11	3	29	72	4	11	1	29
73	4	13	12	38	73	4	13	12	38
74	0	12	0	38	74	0	12	0	31
75	**	**	***	***	75	**	**	***	***

# Listing 2. Distance File (Cont'd)

CI 5					CI 6				
UNIT	ATP	ASP	ATP DIST	ASP DIST	UNIT	ATP	ASP	ATP DIST	ASP DIST
1	3	12	8	35	1	3	12	8	35
2	2	14	11	31	2	2	14	11	31
3	3	12	7	43	3	3	12	7	43
4	2	14	22	43	4	2	14	22	43
5	3	13	19	45	5	3	13	19	45
6	3	13	19	49	6	3	13	16	46
7	1	15	20	95	7	1	15	20	95
8	1	12	25	39	8	1	12	25	39
9	2	14	22	42	9	2	14	22	42
10	1	11	27	37	10	1	11	27	37
11	1	11	16	41	11	1	11	16	41
12	2	16	38	66	12	2	16	38	66
13	1	12	25	56	13	1	12	25	56
14	1	15	27	56	14	1	15	27	56
15	1	11	42	52	15	1	11	42	52
16	2	14	14	44	16	2	14	14	44
17	1	11	41	51	17	1	11	34	41
18	2	14	7	37	18	2	14	7	37
19	1	11	22	32	19	1	11	15	25
20	1	11	22	32	20	1	11	15	25
21	1	11	22	32	21	1	11	15	25
22	2	14	12	42	22	2	14	12	42
23	2	14	12	42	23	2	14	12	42
24	2	14	12	42	24	2	14	12	42
25	3	12	10	32	25	3	12	10	32
26	3	12	10	32	26	3	12	10	32
27	3	12	10	32	27	3	12	10	32
28	3	13	28	53	28	3	13	28	53
29	3	13	28	53	29	3	13	28	53
30	3	13	28	53	30	3	13	28	53
31	2	14	11	32	31	2	14	11	32
32	2	14	11	32	32	2	14	11	32
33	2	14	11	32	33	2	14	11	32
34	1	11	24	34	34	1	11	14	24
35	1	11	24	34	35	1	11	14	24
36	1	11	24	34	36	1	11	14	24
37	5	12	8	32	37	5	12	8	32
38	5	12	8	32	38	5	12	8	32
39	5	12	3	27	39	5	12	3	27
40	4	11	21	26	40	4	11	19	22
41	4	11	21	26	41	4	11	19	22
42	4	11	15	31	42	4	11	9	23
43	1	15	18	55	43	1	15	18	55
44	1	15	18	55	44	1	15	18	55
45	1	15	18	55	45	1	15	18	55
46	3	15	12	48	46	3	15	12	48
47	3	15	12	48	47	3	15	12	48
48	3	15	12	48	48	3	15	12	48
49	5	13	21	35	49	5	13	21	35
50	5	13	21	35	50	5	13	21	35
51	5	13	21	35	51	5	13	21	35
52	4	11	24	52	52	4	11	18	46
53	4	11	24	52	53	4	11	18	46
54	4	11	24	52	54	4	11	18	46
55	5	13	11	30	55	5	13	12	30
56	5	13	11	30	56	5	13	12	30
57	5	13	11	30	57	5	13	12	30
58	4	15	24	58	58	4	15	24	58
59	4	15	24	58	59	4	15	24	58
60	4	15	24	58	60	4	15	24	58
61	5	15	49	60	61	5	15	49	60
62	5	15	49	60	62	5	15	49	60
63	5	15	49	60	63	5	15	49	60
64	4	15	32	58	64	4	15	32	58
65	4	15	32	58	65	4	15	32	58
66	4	15	32	58	66	4	15	32	58
67	0	11	0	45	67	0	11	0	58
68	0	14	0	38	68	0	14	0	39
69	0	12	0	21	69	0	12	0	38
70	0	11	0	40	70	0	11	0	21
71	0	14	0	42	71	0	14	0	42
72	4	11	12	14	72	0	11	0	42
73	4	13	0	20	73	4	13	0	14
74	0	12	0	38	74	0	12	0	20
75	**	**	***	***	75	**	**	***	***

# Listing 2. Distance File (Cont'd)

CI 7

CI 8

UNIT	ATP	ASP	ATP DIST	ASP DIST	UNIT	ATP	ASP	ATP DIST	ASP DIST
1	3	12	8	35	1	3	12	8	35
2	2	14	11	31	2	2	14	11	31
3	3	12	31	46	3	3	12	31	46
4	2	14	22	43	4	2	14	22	43
5	3	14	31	48	5	3	14	31	48
6	3	13	13	42	6	3	13	6	42
7	1	15	20	95	7	1	15	20	95
8	1	12	25	39	8	1	12	25	39
9	2	14	22	42	9	2	14	22	42
10	1	11	26	36	10	1	11	26	36
11	1	11	20	30	11	1	11	16	26
12	2	16	38	66	12	2	16	38	66
13	1	12	25	56	13	1	12	25	56
14	1	15	27	56	14	1	15	27	56
15	1	11	38	48	15	1	11	32	42
16	2	14	14	44	16	2	14	14	44
17	1	11	30	40	17	1	11	24	34
18	2	14	7	37	18	2	14	7	37
19	1	11	10	20	19	1	11	16	26
20	1	11	10	20	20	1	11	10	20
21	1	11	10	20	21	1	11	10	20
22	2	14	12	42	22	2	14	12	42
23	2	14	12	42	23	2	14	12	42
24	2	14	12	42	24	2	14	12	42
25	3	12	10	32	25	3	12	2	32
26	3	12	10	32	26	3	12	2	32
27	3	12	10	32	27	3	12	2	32
28	3	13	28	53	28	3	13	28	53
29	3	13	28	53	29	3	13	28	53
30	3	13	28	53	30	3	13	28	53
31	2	14	11	32	31	2	14	11	32
32	2	14	11	32	32	2	14	11	32
33	2	14	11	32	33	2	14	11	32
34	1	11	6	16	34	1	11	6	16
35	1	11	6	16	35	1	11	6	16
36	1	11	6	16	36	1	11	6	16
37	5	12	8	37	37	5	12	8	37
38	5	12	8	37	38	5	12	8	37
39	5	12	8	37	39	5	12	8	37
40	4	11	12	40	40	4	11	8	37
41	4	11	12	40	41	4	11	8	37
42	4	11	12	40	42	4	11	8	37
43	1	15	18	43	43	1	15	18	43
44	1	15	18	43	44	1	15	18	43
45	1	15	18	43	45	1	15	18	43
46	3	15	12	48	46	3	15	12	48
47	3	15	12	48	47	3	15	12	48
48	3	15	12	48	48	3	15	12	48
49	5	13	16	30	49	5	13	16	30
50	5	13	16	30	50	5	13	16	30
51	5	13	16	30	51	5	13	16	30
52	4	11	18	46	52	4	11	14	42
53	4	11	18	46	53	4	11	14	42
54	4	11	18	46	54	4	11	14	42
55	5	13	10	25	55	5	13	7	25
56	5	13	10	25	56	5	13	7	25
57	5	13	10	25	57	5	13	7	25
58	4	15	24	58	58	4	15	24	58
59	4	15	24	58	59	4	15	24	58
60	4	15	24	58	60	4	15	24	58
61	5	15	49	60	61	5	15	49	60
62	5	15	49	60	62	5	15	49	60
63	5	15	49	60	63	5	15	49	60
64	4	15	32	58	64	4	15	32	58
65	4	15	32	58	65	4	15	32	58
66	4	15	32	58	66	4	15	32	58
67	0	11	0	33	67	0	11	0	33
68	0	14	0	38	68	0	14	0	38
69	0	12	0	21	69	0	12	0	21
70	0	11	0	36	70	0	11	0	36
71	0	14	0	42	71	0	14	0	42
72	0	11	0	14	72	0	11	0	14
73	4	13	16	17	73	4	13	16	17
74	0	12	0	38	74	0	12	0	38
75	**	**	***	***	75	**	**	***	***

# Listing 2. Distance File (Cont'd)

CI 9					CI 10				
UNIT	ATP	ASP	ATP DIST	ASP DIST	UNIT	ATP	ASP	ATP DIST	ASP DIST
1	3	12	8	35	1	3	12	8	35
2	2	14	11	31	2	2	14	11	31
3	3	12	24	39	3	3	15	37	46
4	2	14	29	50	4	2	16	43	70
5	3	14	31	48	5	3	16	44	71
6	3	13	22	20	6	3	16	11	42
7	1	15	20	95	7	1	15	20	95
8	0	12	0	39	8	0	15	0	60
9	2	14	31	48	9	2	16	43	69
10	1	11	26	36	10	1	11	26	36
11	1	11	14	31	11	1	15	35	65
12	2	16	38	66	12	2	16	38	66
13	0	12	0	56	13	0	15	0	56
14	1	15	27	56	14	1	15	27	56
15	1	11	31	41	15	1	15	34	64
16	2	14	14	44	16	2	14	14	44
17	1	11	24	34	17	1	15	26	56
18	2	14	7	37	18	2	14	7	37
19	1	11	9	25	19	1	15	20	50
20	1	11	9	25	20	1	15	20	50
21	1	11	9	25	21	1	15	20	50
22	2	14	21	48	22	2	15	36	63
23	2	14	21	48	23	2	15	36	63
24	2	14	21	48	24	2	15	36	63
25	3	12	11	46	25	3	15	22	57
26	3	12	11	46	26	3	15	22	57
27	3	12	11	46	27	3	15	22	57
28	3	13	16	43	28	3	16	31	58
29	3	13	16	43	29	3	16	31	58
30	3	13	16	43	30	3	16	31	58
31	2	14	24	51	31	2	16	39	66
32	2	14	24	51	32	2	16	39	66
33	2	14	24	51	33	2	16	39	66
34	1	11	3	19	34	1	15	23	53
35	1	11	3	19	35	1	15	23	53
36	1	11	3	19	36	1	15	23	53
37	5	12	6	20	37	5	15	32	62
38	5	12	6	20	38	5	15	32	62
39	5	12	6	20	39	5	15	39	69
40	4	11	5	15	40	4	15	38	52
41	4	11	5	15	41	4	15	38	52
42	4	11	6	13	42	4	15	35	50
43	1	15	18	55	43	1	15	18	55
44	1	15	18	55	44	1	15	18	55
45	1	15	18	55	45	1	15	18	55
46	3	15	12	48	46	3	15	12	48
47	3	15	12	48	47	3	15	12	48
48	3	15	12	48	48	3	15	12	48
49	5	13	14	29	49	5	16	31	54
50	5	13	14	29	50	5	16	31	54
51	5	13	14	29	51	5	16	31	54
52	4	11	14	31	52	4	15	31	51
53	4	11	14	31	53	4	15	31	51
54	4	11	14	31	54	4	15	31	51
55	5	13	7	23	55	5	16	31	50
56	5	13	7	23	56	5	16	41	50
57	5	13	7	23	57	5	16	41	50
58	4	15	24	58	58	4	15	24	56
59	4	15	24	58	59	4	15	24	56
60	4	15	24	58	60	4	15	24	56
61	5	15	49	60	61	5	16	49	60
62	5	15	49	60	62	5	16	49	60
63	5	15	49	60	63	5	16	49	60
64	4	15	32	58	64	4	15	32	58
65	4	15	32	58	65	4	15	32	58
66	4	15	32	58	66	4	15	32	58
67	0	11	0	24	67	0	15	0	51
68	0	14	0	48	68	0	16	0	69
69	0	11	0	44	69	0	15	0	70
70	0	11	0	39	70	0	15	0	61
71	0	14	0	42	71	0	14	0	42
72	0	11	0	3	72	5	15	25	15
73	4	13	16	23	73	5	15	25	44
74	0	12	0	30	74	0	12	0	28
75	**	**	***	***	75	**	**	***	***



# Listing 2. Distance File (Cont'd)

CI 11					CI 12				
UNIT	ATP	ASP	ATP DIST	ASP DIST	UNIT	ATP	ASP	ATP DIST	ASP DIST
1	3	12	8	35	1	3	15	8	20
2	2	14	11	31	2	2	15	33	26
3	3	15	37	46	3	3	15	27	63
4	2	46	43	70	4	2	16	43	76
5	3	16	44	71	5	2	16	44	71
6	3	16	11	42	6	3	16	11	6
7	1	15	20	95	7	1	15	20	97
8	0	15	0	60	8	1	15	20	97
9	2	16	43	60	9	2	16	43	76
10	1	11	26	36	10	1	15	11	21
11	1	15	31	63	11	1	15	33	63
12	2	16	38	66	12	2	15	32	67
13	0	15	0	56	13	1	15	26	13
14	1	15	27	56	14	1	15	27	26
15	1	15	37	61	15	1	15	34	24
16	2	14	14	44	16	2	12	14	41
17	1	15	26	56	17	1	15	16	22
18	2	14	7	37	18	2	12	7	27
19	1	15	20	50	19	1	15	20	50
20	1	15	20	50	20	1	15	20	50
21	1	15	20	50	21	1	15	20	50
22	2	15	36	63	22	2	15	36	63
23	2	15	36	63	23	2	15	36	63
24	2	15	36	63	24	2	15	36	63
25	3	15	22	57	25	3	15	22	57
26	3	15	22	57	26	3	15	22	57
27	3	15	22	57	27	3	15	22	57
28	3	16	31	58	28	3	16	31	58
29	3	16	31	58	29	3	16	31	58
30	3	16	31	58	30	3	16	31	58
31	2	16	39	66	31	2	16	39	66
32	2	16	39	66	32	2	16	39	66
33	2	16	39	66	33	2	16	39	66
34	1	15	23	53	34	1	15	23	53
35	1	15	23	53	35	1	15	23	53
36	1	15	23	53	36	1	15	23	53
37	5	15	32	52	37	5	16	14	43
38	5	15	32	52	38	5	16	14	43
39	5	15	39	50	39	5	16	11	40
40	4	15	38	52	40	4	15	15	39
41	4	15	38	52	41	4	15	15	34
42	4	15	35	50	42	4	15	11	39
43	1	15	18	55	43	0	0	0	0
44	1	15	18	55	44	0	0	0	0
45	1	15	18	55	45	0	0	0	0
46	3	15	12	48	46	0	0	0	0
47	3	15	12	48	47	0	0	0	0
48	3	15	12	48	48	0	0	0	0
49	5	16	31	54	49	5	16	40	57
50	5	16	31	54	50	5	16	40	57
51	5	16	31	54	51	5	16	40	57
52	4	15	31	51	52	4	15	23	66
53	4	15	31	51	53	4	15	33	65
54	4	15	31	51	54	4	15	33	65
55	5	16	41	50	55	5	16	41	58
56	5	16	41	50	56	5	16	41	58
57	5	16	41	50	57	5	16	41	58
58	4	15	24	56	58	4	15	25	56
59	4	15	24	56	59	4	15	25	56
60	4	15	24	56	60	4	15	25	56
61	5	16	49	60	61	5	16	49	56
62	5	16	49	60	62	5	16	49	56
63	5	16	49	60	63	5	16	49	56
64	4	15	32	58	64	4	15	28	69
65	4	15	32	58	65	4	15	28	69
66	4	15	32	58	66	4	15	28	69
67	0	15	0	51	67	0	15	20	67
68	0	16	0	69	68	0	16	0	67
69	0	15	0	70	69	0	15	0	70
70	0	15	0	63	70	0	15	0	67
71	0	14	0	42	71	0	16	0	32
72	5	15	25	15	72	4	15	26	51
73	5	15	25	44	73	4	16	28	48
74	0	12	0	38	74	0	15	0	34
75	**	**	***	***	75	0	0	0	0

# Listing 2. Distance File (Cont'd)

CI 13					CI 14				
UNIT	ATP	ASP	ATP DIST	ASP DIST	UNIT	ATP	ASP	ATP DIST	ASP DIST
1	3	15	3	55	1	3	15	3	55
2	2	15	33	68	2	2	15	33	68
3	3	15	19	45	3	3	15	19	45
4	2	16	43	70	4	2	16	43	70
5	2	16	44	71	5	2	16	44	71
6	3	16	11	42	6	3	16	11	42
7	1	15	15	90	7	1	15	15	90
8	1	15	21	91	8	1	15	21	91
9	2	16	43	70	9	2	16	43	70
10	1	15	21	31	10	1	15	21	31
11	1	15	33	63	11	1	15	33	63
12	2	15	36	66	12	2	15	36	66
13	1	15	25	56	13	1	15	25	56
14	1	15	27	56	14	1	15	27	56
15	1	15	34	64	15	1	15	34	64
16	2	12	14	44	16	2	12	14	44
17	1	15	26	56	17	1	15	26	56
18	2	12	7	37	18	2	12	7	37
19	1	15	20	50	19	1	15	20	50
20	1	15	20	50	20	1	15	20	50
21	1	15	20	50	21	1	15	20	50
22	2	15	36	63	22	2	15	36	63
23	2	15	36	63	23	2	15	36	63
24	2	15	36	63	24	2	15	36	63
25	3	15	19	54	25	3	15	19	54
26	3	15	19	54	26	3	15	19	54
27	3	15	19	54	27	3	15	19	54
28	3	16	24	51	28	3	16	24	51
29	3	16	24	51	29	3	16	24	51
30	3	16	24	51	30	3	16	24	51
31	2	16	36	63	31	2	16	36	63
32	2	16	36	63	32	2	16	36	63
33	2	16	36	63	33	2	16	36	63
34	1	15	19	33	34	1	15	19	33
35	1	15	19	33	35	1	15	19	33
36	1	15	19	33	36	1	15	19	33
37	5	16	10	39	37	5	16	10	39
38	5	16	10	39	38	5	16	10	39
39	5	16	11	40	39	5	16	11	40
40	4	15	15	34	40	4	15	15	34
41	4	15	15	34	41	4	15	15	34
42	4	15	11	30	42	4	15	11	30
43	0	0	0	0	43	0	0	0	0
44	0	0	0	0	44	0	0	0	0
45	0	0	0	0	45	0	0	0	0
46	0	0	0	0	46	0	0	0	0
47	0	0	0	0	47	0	0	0	0
48	0	0	0	0	48	0	0	0	0
49	5	16	40	57	49	5	16	40	57
50	5	16	40	57	50	5	16	40	57
51	5	16	40	57	51	5	16	40	57
52	4	15	33	66	52	4	15	33	66
53	4	15	33	66	53	4	15	33	66
54	4	15	33	66	54	4	15	33	66
55	5	16	41	58	55	5	16	41	58
56	5	16	41	58	56	5	16	41	58
57	5	16	41	58	57	5	16	41	58
58	4	15	25	56	58	4	15	25	56
59	4	15	25	56	59	4	15	25	56
60	4	15	25	56	60	4	15	25	56
61	5	16	45	62	61	5	16	45	62
62	5	16	45	62	62	5	16	45	62
63	5	16	45	62	63	5	16	45	62
64	4	15	24	63	64	4	15	24	63
65	4	15	24	63	65	4	15	24	63
66	4	15	24	63	66	4	15	24	63
67	0	15	0	51	67	0	15	0	51
68	0	16	0	55	68	0	16	0	55
69	0	15	0	55	69	0	15	0	55
70	0	15	0	58	70	0	15	0	58
71	0	16	0	58	71	0	16	0	58
72	4	15	26	51	72	4	15	26	51
73	4	16	28	48	73	4	16	28	48
74	0	15	0	34	74	0	15	0	34
75	0	0	0	0	75	0	0	0	0

# Listing 2. Distance File (Cont'd)

CI 15

UNIT	ATP	ASP	ATP DIST	ASP DIST
1	3	15	3	59
2	2	15	33	60
3	3	15	19	48
4	2	16	43	70
5	2	16	44	71
6	3	16	11	42
7	1	15	15	90
8	1	15	21	91
9	2	16	43	70
10	1	15	21	31
11	1	15	33	63
12	2	15	39	65
13	1	15	25	56
14	1	15	17	52
15	1	15	32	54
16	2	12	14	34
17	1	15	26	56
18	2	12	7	31
19	1	15	20	50
20	1	15	26	56
21	1	15	20	50
22	2	15	36	61
23	2	15	35	61
24	2	15	35	61
25	3	15	19	57
26	3	15	19	57
27	1	15	17	52
28	3	15	17	52
29	3	15	17	52
30	3	16	24	51
31	2	16	36	63
32	2	16	36	63
33	2	16	36	63
34	1	15	19	53
35	1	15	19	53
36	1	15	19	53
37	5	16	10	39
38	5	16	10	39
39	5	16	11	40
40	4	15	15	34
41	4	15	15	34
42	4	15	11	50
43	0	0	0	0
44	0	0	0	0
45	0	0	0	0
46	0	0	0	0
47	0	0	0	0
48	0	0	0	0
49	5	16	40	57
50	5	16	40	57
51	5	16	40	57
52	4	15	33	66
53	4	15	33	66
54	4	15	33	66
55	5	16	41	58
56	5	16	41	58
57	5	16	41	58
58	4	15	25	56
59	4	15	25	56
60	4	15	25	56
61	5	16	45	62
62	5	16	45	62
63	5	16	45	62
64	4	15	24	63
65	4	15	24	63
66	4	15	24	63
67	0	15	0	51
68	0	16	0	64
69	0	15	0	55
70	0	15	0	55
71	0	16	0	38
72	4	15	26	51
73	4	16	28	48
74	0	15	0	34
75	0	0	0	0

#### 4. ASP/ATP Data.

a. Overview. As the ARM data base drives the ARM model, the ASP/ATP data, comprising as it does the greatest number of different user interactive arrays, holds a prominent position within that data base. The arrays are: IASP, IAMLVL, ISERV, IATP, IATPSD, and IATPSP. This is the order in which they will be presented. What they detail, already spelled out in Volume I, will again become apparent in this presentation. The user is referred to Volume I for more lengthy explanation.

#### b. Printouts and Explanations.

(1) IASP(10,110). Listing 3 is the printout of IASP for the standard European heavy division at the start of the game. The ASPs, 11-20, appear on the columns of the printout and the attributes, 1-110, are the rows. Only four of the ASPs are to be used initially. Therefore ASPs 15-20 are not stocked with any ammunition. The data values for ASP 11 will be used for this discussion.

<u>Attribute</u>	<u>Value</u>	<u>Source(s)</u>
1. Distance to CSA	109	j, a, e
2. ASP status	0	j
3. Cum helicopter counter	0	c
4. S&P queue for CSA-ASP	126	d
5. # trucks to CSA	0	c
6. # empty S&Ps at ASP	0	c
7. Server's queue number	156	d
8. # of MLRS being served	0	c
9. Routine queue number	136	d
10. MLRS queue number	146	d
11. Rear ASP #	15	e
12. # Trucks in routine queue	0	c
13. # Trucks in MLRS queue	0	c
14. Convoy counter at CSA	0	c
15. Helicopter server counter	0	c
16. Server removal counter	0	c
17. # of convoys sent from CSA	0	c
18. S&P queue for ASP-ATP round-robin	166	d
19. Not used	0	c
20. # times server unavailable for unit truck	0	c
21. Ammo 1 current supply	960	a,g,b,e
22. Queue ammo demand, ammo 1	0	c
23. Ammo 1 on-the-way	0	c
24-78. Same attribute definitions as 21-23 for ammo 2-18. The values are as shown.		

Listing 3. IASP

\*\*\*\*\*ASP DATA\*\*\*\*\*

	ASP 11	ASP 12	ASP 13	ASP 14	ASP 15	ASP 16	ASP 17	ASP 18	ASP 19	ASP 20
1	109	107	98	98	74	72	30	24	0	0
2	0	0	0	0	1	1	-1	-1	-1	-1
3	0	0	0	0	0	0	0	0	0	0
4	126	127	128	129	130	131	132	133	134	135
5	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0
7	156	157	158	159	160	161	162	163	164	165
8	0	0	0	0	0	0	0	0	0	0
9	136	137	138	139	140	141	142	143	144	145
10	146	147	148	149	150	151	152	153	154	155
11	15	15	16	16	17	18	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0
18	166	167	168	169	170	171	172	173	174	175
19	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
21	960	960	960	960	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0
24	288	288	288	288	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0
27	12750	12750	12750	12750	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0
30	1792	1792	1792	1792	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0
33	7072	7072	7072	7072	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0
36	432	432	432	432	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0	0
38	0	0	0	0	0	0	0	0	0	0
39	2376	2376	2376	2376	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
41	0	0	0	0	0	0	0	0	0	0
42	4104	4104	4104	4104	0	0	0	0	0	0
43	0	0	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0	0	0
45	336	336	336	336	0	0	0	0	0	0

Listing 3. IASP (Con't)

	ASP 11	ASP 12	ASP 13	ASP 14	ASP 15	ASP 16	ASP 17	ASP 18	ASP 19	ASP 20
46	0	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0	0
48	1920	1920	1920	1920	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
51	1792	1792	1792	1792	0	0	0	0	0	0
52	0	0	0	0	0	0	0	0	0	0
53	0	0	0	0	0	0	0	0	0	0
54	456	456	456	456	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0
56	0	0	0	0	0	0	0	0	0	0
57	896	896	896	896	0	0	0	0	0	0
58	0	0	0	0	0	0	0	0	0	0
59	0	0	0	0	0	0	0	0	0	0
60	20480	20480	20480	20480	0	0	0	0	0	0
61	0	0	0	0	0	0	0	0	0	0
62	0	0	0	0	0	0	0	0	0	0
63	432	432	432	432	0	0	0	0	0	0
64	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0
66	4536	4536	4536	4536	0	0	0	0	0	0
67	0	0	0	0	0	0	0	0	0	0
68	0	0	0	0	0	0	0	0	0	0
69	22500	22500	22500	22500	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
71	0	0	0	0	0	0	0	0	0	0
72	5376	5376	5376	5376	0	0	0	0	0	0
73	0	0	0	0	0	0	0	0	0	0
74	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0
76	0	0	0	0	0	0	0	0	0	0
77	0	0	0	0	0	0	0	0	0	0
78	18000	18000	18000	18000	0	0	0	0	0	0
79	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
81	0	0	0	0	0	0	0	0	0	0
82	0	0	0	0	0	0	0	0	0	0
83	0	0	0	0	0	0	0	0	0	0
84	0	0	0	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0	0	0
86	0	0	0	0	0	0	0	0	0	0
87	0	0	0	0	0	0	0	0	0	0
88	0	0	0	0	0	0	0	0	0	0
89	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0
91	0	0	0	0	0	0	0	0	0	0
92	0	0	0	0	0	0	0	0	0	0

Listing 3. IASP (Con't)

	ASP 11	ASP 12	ASP 13	ASP 14	ASP 15	ASP 16	ASP 17	ASP 18	ASP 19	ASP 20
93	0	0	0	0	0	0	0	0	0	0
94	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0
96	0	0	0	0	0	0	0	0	0	0
97	0	0	0	0	0	0	0	0	0	0
98	0	0	0	0	0	0	0	0	0	0
99	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
101	0	0	0	0	0	0	0	0	0	0
102	0	0	0	0	0	0	0	0	0	0
103	0	0	0	0	0	0	0	0	0	0
104	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
106	0	0	0	0	0	0	0	0	0	0
107	0	0	0	0	0	0	0	0	0	0
108	0	0	0	0	0	0	0	0	0	0
109	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0

(2) IAMLVL(2,30). The IAMLVL array printout is shown on Listing 4. It is essentially a three column printout with the ammo code in the first column, the number of rounds of that ammo to be maintained at each ATP in column two, and the number of rounds of that ammo to be maintained at each ASP in column three. The data values are as shown. The 150 and 120 in IAMLVL (1, 29) and IAMLVL (1, 30) are the maximum stockage percentages for ATP and ASP, respectively. Thus ASPs can have at least  $9000 \times 120\% = 10,800$  rounds of ammo 20. Sources for data are: ammo code (d), ammo levels (j).

Listing 4. IAMLVL

ATP/ASP STOCKAGE OBJECTIVES (IAMLVL(2,30))

AMMO	ATP	ASP	AMMO	ATP	ASP	AMMO	ATP	ASP
1	1440	1440	11	9000	896	21	0	0
2	288	288	12	0	684	22	0	0
3	3400	4250	13	0	896	23	0	0
4	896	896	14	0	40960	24	0	0
5	1664	1248	15	0	648	25	0	0
6	432	648	16	0	4536	26	0	0
7	648	864	17	0	22500	27	0	0
8	1368	1824	18	0	16128	28	0	0
9	336	336	19	0	0	29	150	0
10	240	480	20	0	9000	30	120	0

(3) ISERV(10). The ISERV array is shown on Listing 5. The attributes are listed in a single row. All values are initialized to zero.

Listing 5. ISERV

\*\*\*\*ISERV\*\*\*\*

0 0 0 0 0 0 0 0 0 0



(4) IATP(10,53). Listing 6 shows the IATP array. In similar fashion to the IASP array the ATPs, 1-10, are listed in columns, and the attributes, 1-53, are in rows. There are initially six active ATPs as the others have no ammunition. In associating data with sources primary attention will be on ATP 1.

<u>Attribute</u>	<u>Value</u>	<u>Source(s)</u>
1. Distance to CSA	139	j, a, e
2. Distance to ASP	34	j, a, e
3. Distance to DAO	90	j, a, e
4. Not used	0	c
5. # arriving S&P trucks for return of empties	3	j, e
6. Associated ASP #	11	e
7. Queue for ASP S&P	0	c
8. # MLRS trucks being served	0	c
9. CSA S&P queue	0	c
10. Server's queue #	116	d
11. Artillery queue #	96	d
12. Maneuver unit queue #	106	d
13. Convoy counter at CSA	0	c
14. # trucks in artillery queue	0	c
15. # trucks in maneuver unit queue	0	c
16. Server removal counter	0	c
17. # of convoys from CSA	0	c
18-19. Not used	0	c
20. # times server not available	0	c
21. Current ammo supply, ammo 1	1440	a,g,b,e

<u>Attribute</u>	<u>Value</u>	<u>Source(s)</u>
22. Queue ammo demand, ammo 1	0	c
23. Queue ammo demand, ammo 1	0	c
23. Ammo 1 on-the-way	0	c
24-26. Same attribute definitions as 21-23 for ammo 2-10. The values are as shown.		

# Listing 6. IATP

\*\*\*\*\*ATP DATA\*\*\*\*\*

	ASP 1	ASP 2	ASP 3	ASP 4	ASP 5	ASP 6	ASP 7	ASP 8	ASP 9	ASP 10
1	139	124	126	131	116	116	0	0	0	0
2	34	34	35	26	25	41	0	0	0	0
3	90	90	90	90	90	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
5	3	3	3	3	3	3	0	0	0	0
6	11	14	12	12	13	13	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0
10	116	117	118	119	120	121	122	123	124	125
11	96	97	98	99	100	101	102	103	104	105
12	106	107	108	109	110	111	112	113	114	115
13	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
21	1440	1440	1440	0	0	1440	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0
24	288	288	288	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0
27	3400	3400	3400	0	0	1700	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0
30	896	896	896	0	0	448	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0
33	1664	1664	1664	0	0	1248	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0
36	0	0	0	432	648	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0	0
38	0	0	0	0	0	0	0	0	0	0
39	0	0	0	648	864	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
41	0	0	0	0	0	0	0	0	0	0
42	0	0	0	1368	1824	0	0	0	0	0
43	0	0	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0	0	0

# Listing 6. IATP (Con't)

	ASP 1	ASP 2	ASP 3	ASP 4	ASP 5	ASP 6	ASP 7	ASP 8	ASP 9	ASP 10
45	0	0	0	336	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0	0
48	0	0	0	240	288	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
51	9000	9000	9000	9000	9000	9000	0	0	0	0
52	0	0	0	0	0	0	0	0	0	0
53	0	0	0	0	0	0	0	0	0	0

(5) IATPSD(5). The IATPSD array is shown on Listing 7. The attributes are listed in a row.

# LISTING 7. IATPSD

\*\*\*\*\*ATP SERVICE DATA\*\*\*\*\*

1181 3 2 6 0

<u>Attribute</u>	<u>Value</u>	<u>Source(s)</u>
1. Lowest ASP-ATP round-robin S&P #	1181	e
2. ATP first priority S&P queue	3	j, e
3. ATP 2nd priority S&P queue	3	j, e
4. CFA ATP owner #	6	j
5. Not used	0	c

## 5. Unit Data.

a. Overview. Almost the entirety of the unit data with which the user often interacts is contained in the IUNIT array. The user is reminded that in ARM a unit represents an artillery battery or, in the case of maneuver units, a battalion. A discussion of IUNIT will follow.

b. Printout and Explanation. Listing 8 shows the IUNIT array. Its dimensions are (75, 142). Its printout is the most difficult to read of all those in ARM as it has often been run on printers with a more narrow than standard page width. Therefore, some care must be exercised. Reading down the left-hand column are the unit numbers, 1-75. The values, row by row, for unit 1 are as follows.

<u>Attribute</u>	<u>Value</u>	<u>Source(s)</u>
1. Unit type	1	d
2. Serving ATP	3	j
3. Serving ASP	12	j
4. Distance to ATP (km)	26	j, a, e
5. Distance to ASP (km)	58	j, a, e
6. Time last unit truck was interdicted	0	c
(JIFFY name)	TF1A	a, (value read from AUNIT)
7. Helicopter missions received this CI	0	c
(At this point the reader should skip to the farthest left-hand value of the second row)		
8. First ammo type	1	a, d
9. Weapons alive first ammo	44	a, b
10. Weapons short ammo, first ammo	0	c
11. Rounds short-all weapons, first ammo	0	c
12. Current ammo supply-all weapons, first ammo type	2376	a, g, b, e
13. Routine supply level-per weapon, first ammo type	28	e, a
14. Critical resupply level-per weapon, first ammo type	0	e, a
15. Basic ammo level-per weapon, first ammo type	54	b, e
16. Ammo on trucks, first ammo type	1200	b, e
17. # weapons killed at end of CI, first ammo type	0	c

<u>Attribute</u>	<u>Value</u>	<u>Source(s)</u>
18. # weapons short ammo, first ammo type	0	c
19. Total rounds demanded through whole CI, first ammo round	0	c
20. Storage for number of rounds resupply in route, first ammo type	0	c
(Again, skip back to next row, farthest left-hand value and begin reading for the next nine ammo types)		
(Now, looking at the four zeros at the end of the first row. They are:		
139. Pulse indicator	0	e
140-142. Counters	0	c



UNIT TYPE ATP ASP ATP DIST ASP DIST ASP DIST NO. HELD PULSE KNT1 KNT2 KNT3  
AMMO WPNS ALIVE WPNS SHORT RND5 SHORT CURRENT RRL CRL BAL TRK AMMO CI SURV SHORT DMD REPL

5	1	3	13	10	45	28	0	54	1200	0	0	0	0	0	0	0	0
	1	94	0	0	2376	28	0	54	1200	0	0	0	0	0	0	0	0
	2	6	0	0	72	6	0	12	108	0	0	0	0	0	0	0	0
	2	13	0	0	78	3	0	5	108	0	0	0	0	0	0	0	0
	16	6	0	0	690	58	0	115	1080	0	0	0	0	0	0	0	0
	17	12	0	0	6650	175	0	352	4500	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	1	3	13	14	49	28	0	54	1200	0	0	0	0	0	0	0	0
	1	94	0	0	2376	28	0	54	1200	0	0	0	0	0	0	0	0
	2	6	0	0	72	6	0	12	108	0	0	0	0	0	0	0	0
	2	13	0	0	78	3	0	5	108	0	0	0	0	0	0	0	0
	16	6	0	0	690	58	0	115	1080	0	0	0	0	0	0	0	0
	17	12	0	0	6650	175	0	352	4500	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	1	1	15	20	95	28	0	54	720	0	0	0	0	0	0	0	0
	1	28	0	0	1512	28	0	54	720	0	0	0	0	0	0	0	0
	2	6	0	0	72	6	0	12	216	0	0	0	0	0	0	0	0
	2	26	0	0	156	3	0	5	216	0	0	0	0	0	0	0	0
	16	6	0	0	690	58	0	115	2160	0	0	0	0	0	0	0	0
	17	12	0	0	11200	175	0	350	9000	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	1	1	12	25	39	28	0	54	720	0	0	0	0	0	0	0	0
	1	28	0	0	1512	28	0	54	720	0	0	0	0	0	0	0	0
	2	6	0	0	72	6	0	12	216	0	0	0	0	0	0	0	0
	2	26	0	0	156	3	0	5	216	0	0	0	0	0	0	0	0
	16	6	0	0	690	58	0	115	2160	0	0	0	0	0	0	0	0
	17	12	0	0	11200	175	0	352	9000	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Listing 8. IUNIT Array (Cont'd)









UNIT TYPE ATP ASP ATP DIST ASP DIST CUMHLS JIFFY NAME NO. HELD PULSE KNTR1 KNTR2 KNTR3  
AMMO WMS ALIVE JPNS SHORT RNDOS SHORT CURRENT RRL CRL BAL TRK AMMO CI SURV SHORT DMD REPL

21	4	1	11	27	59	14	7	21	272	0	1	0	0	0
4	8	0	0	0	168	14	7	21	272	0	0	0	0	0
5	8	0	0	0	664	55	25	83	680	0	0	0	0	0
11	8	0	0	0	112	7	0	14	108	0	0	0	0	0
12	8	0	0	0	40	3	0	5	108	0	0	0	0	0
13	8	0	0	0	40	3	0	5	108	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	4	2	14	21	56	14	7	21	272	0	1	0	0	0
4	8	0	0	0	168	14	7	21	272	0	0	0	0	0
5	8	0	0	0	664	55	25	83	680	0	0	0	0	0
11	8	0	0	0	112	7	0	14	108	0	0	0	0	0
12	8	0	0	0	40	3	0	5	108	0	0	0	0	0
13	8	0	0	0	40	3	0	5	108	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	4	2	14	21	56	14	7	21	272	0	1	0	0	0
4	8	0	0	0	168	14	7	21	272	0	0	0	0	0
5	8	0	0	0	664	55	25	83	680	0	0	0	0	0
11	8	0	0	0	112	7	0	14	108	0	0	0	0	0
12	8	0	0	0	40	3	0	5	108	0	0	0	0	0
13	8	0	0	0	40	3	0	5	108	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	4	2	14	21	56	14	7	21	272	0	1	0	0	0
4	8	0	0	0	168	14	7	21	272	0	0	0	0	0
5	8	0	0	0	664	55	25	83	680	0	0	0	0	0
11	8	0	0	0	112	7	0	14	108	0	0	0	0	0
12	8	0	0	0	40	3	0	5	108	0	0	0	0	0
13	8	0	0	0	40	3	0	5	108	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

\*\*\*\*\* UNCLASSIFIED \*\*\*\*\*

UNIT	TYPE	ATP	ASP	ATP	DIST	ASP	DIST	CURRENT	CUMHLS	JIFFY NAME	NO. HELD	PULSE	KNTR1	KNTR2	KNTR3	REPL	
AMMO	NPNS	ALIVE	NPNS	SHORT	RND5	SHORT	SHORT	CURRENT	RRL	CRL	BAL	TQA	AMMO	CI	SURV	SHORT	DMO

25	4	3	8	12	18	0	0	52	0	7	21	272	0	0	0	0	0
4	4	8	8	0	0	0	0	168	14	7	21	272	0	0	0	0	0
5	5	8	8	0	0	0	0	664	55	25	83	680	0	0	0	0	0
11	8	8	8	0	0	0	0	112	7	0	14	104	0	0	0	0	0
12	8	8	8	0	0	0	0	40	3	0	5	108	0	0	0	0	0
13	8	8	8	0	0	0	0	40	3	0	5	108	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	4	3	8	12	18	0	0	52	0	7	21	272	0	0	0	0	0
4	4	8	8	0	0	0	0	168	14	7	21	272	0	0	0	0	0
5	5	8	8	0	0	0	0	664	55	25	83	680	0	0	0	0	0
11	8	8	8	0	0	0	0	112	7	0	14	108	0	0	0	0	0
12	8	8	8	0	0	0	0	40	3	0	5	108	0	0	0	0	0
13	8	8	8	0	0	0	0	40	3	0	5	108	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	4	3	8	12	18	0	0	52	0	7	21	272	0	0	0	0	0
4	4	8	8	0	0	0	0	168	14	7	21	272	0	0	0	0	0
5	5	8	8	0	0	0	0	664	55	25	83	680	0	0	0	0	0
11	8	8	8	0	0	0	0	112	7	0	14	108	0	0	0	0	0
12	8	8	8	0	0	0	0	40	3	0	5	108	0	0	0	0	0
13	8	8	8	0	0	0	0	40	3	0	5	108	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	4	3	8	13	23	0	0	64	0	7	21	272	0	0	0	0	0
4	4	8	8	0	0	0	0	168	14	7	21	272	0	0	0	0	0
5	5	8	8	0	0	0	0	664	55	25	83	680	0	0	0	0	0
11	8	8	8	0	0	0	0	112	7	0	14	108	0	0	0	0	0
12	8	8	8	0	0	0	0	40	3	0	5	108	0	0	0	0	0
13	8	8	8	0	0	0	0	40	3	0	5	108	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Listing 8. IUNIT Array (Cont'd)

[illegible]

Listing 8. IUNIT Array (Cont'd)









UNIT	TYPE	ATP	ASP	ATP DIST	ASP DIST	CUMMELS	JEFFY NAME	NO. HELD	PULSE	UNIT1	UNIT2	UNIT3
	AMMO	WPM5	ALIVE	WPM5	SHORT	RND5	SHORT	CT	SRV	SHORT	DMD	REPL
							BAL	TRK	AMMO			

[illegible][illegible][illegible][illegible]







[illegible][illegible]

### Listing 8. IUNIT Array (Cont'd)









## 6. Truck Data.

a. Overview. The main ARM truck data arrays are ITRUCK and ITYPE. The ITRUCK array is the largest within arm and is concerned with the individual vehicles played. These include trucks, cranes, and forklifts. ITYPE, on the other hand, describes characteristics common to the different types of vehicles simulated. Also included in this chapter is a printout of the truck queues at the start of the game.

### b. Printouts and Explanations.

(1) ITRUCK(1400,15). The ITRUCK array appears on Listing 9. The truck numbers are listed in columnar fashion running down the left margin. Each truck's fifteen attributes appear as rows on the same line with the truck number. Truck number 1 will be explained.

<u>Attribute</u>	<u>Value</u>	<u>Source(s)</u>
1. Vehicle type	1	b, d
2. Mission type	1	b, d
3. Status type	1	b, d
4. Owner number	1	(Unit number of truck)
5. Ammo mix number	1	(Equates to the AMMO mix number in the IMIX array which was set by the gamer in accordance with the scenario, truck and rounds type, etc.)
6. Percent loaded	100.00	e
7. Time since last failure	0	c
8-15. General truck counters	0	c

AD-A131 219

AMMUNITION RESUPPLY MODEL VOLUME 3 STANDARD EUROPEAN  
HEAVY DIVISION DATA BASE(U) COMBINED ARMS OPERATIONS  
RESEARCH ACTIVITY FORT LEAVENWORTH K. C. HARRIS MAY 83  
CAORA/TR-6/83-VOL-3

2/2

UNCLASSIFIED

F/G 19/1

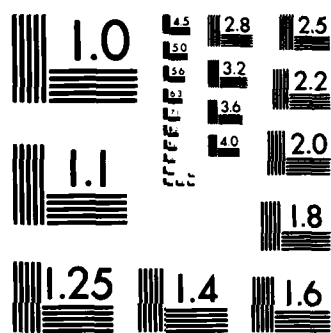
NL

END

FILMED

11

12-8100



MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A

\*\*\*\*\* TRUCK DATA \*\*\*\*\*

TRUCK	TYPE	MISSION	STATUS	OWNER	MIX	1	LOAD	NEXT	FAIL	KNIR1	KNIR2	KNIR3	KNIR4	KNIR5	KNIR6	KNIR7	KNIR8
1	1	1	1	1	1	1	10000	0	0	0	0	0	0	0	0	0	0
2	1	1	1	1	1	1	10000	0	0	0	0	0	0	0	0	0	0
3	1	1	1	1	1	1	10000	0	0	0	0	0	0	0	0	0	0
4	1	1	1	1	1	1	10000	0	0	0	0	0	0	0	0	0	0
5	1	1	1	1	1	1	10000	0	0	0	0	0	0	0	0	0	0
6	1	1	1	1	1	16	10000	0	0	0	0	0	0	0	0	0	0
7	1	1	1	1	1	16	10000	0	0	0	0	0	0	0	0	0	0
8	2	1	1	1	32	10000	0	0	0	0	0	0	0	0	0	0	0
9	2	1	1	1	32	10000	0	0	0	0	0	0	0	0	0	0	0
10	2	1	1	1	32	10000	0	0	0	0	0	0	0	0	0	0	0
11	1	1	1	2	1	16000	0	0	0	0	0	0	0	0	0	0	0
12	1	1	1	2	1	16000	0	0	0	0	0	0	0	0	0	0	0
13	1	1	1	2	1	16000	0	0	0	0	0	0	0	0	0	0	0
14	1	1	1	2	1	16000	0	0	0	0	0	0	0	0	0	0	0
15	1	1	1	2	1	16000	0	0	0	0	0	0	0	0	0	0	0
16	1	1	1	2	16	10000	0	0	0	0	0	0	0	0	0	0	0
17	1	1	1	2	16	10000	0	0	0	0	0	0	0	0	0	0	0
18	2	1	1	2	32	10000	0	0	0	0	0	0	0	0	0	0	0
19	2	1	1	2	32	10000	0	0	0	0	0	0	0	0	0	0	0
20	2	1	1	2	32	10000	0	0	0	0	0	0	0	0	0	0	0
21	1	1	1	3	1	16000	0	0	0	0	0	0	0	0	0	0	0
22	1	1	1	3	1	16000	0	0	0	0	0	0	0	0	0	0	0
23	1	1	1	3	1	16000	0	0	0	0	0	0	0	0	0	0	0
24	1	1	1	3	1	16000	0	0	0	0	0	0	0	0	0	0	0
25	1	1	1	3	1	16000	0	0	0	0	0	0	0	0	0	0	0
26	1	1	1	3	16	10000	0	0	0	0	0	0	0	0	0	0	0
27	1	1	1	3	16	10000	0	0	0	0	0	0	0	0	0	0	0
28	2	1	1	3	32	10000	0	0	0	0	0	0	0	0	0	0	0
29	2	1	1	3	32	10000	0	0	0	0	0	0	0	0	0	0	0
30	2	1	1	3	32	10000	0	0	0	0	0	0	0	0	0	0	0
31	1	1	1	4	1	16000	0	0	0	0	0	0	0	0	0	0	0
32	1	1	1	4	1	16000	0	0	0	0	0	0	0	0	0	0	0
33	1	1	1	4	1	16000	0	0	0	0	0	0	0	0	0	0	0
34	1	1	1	4	1	16000	0	0	0	0	0	0	0	0	0	0	0
35	1	1	1	4	1	16000	0	0	0	0	0	0	0	0	0	0	0
36	1	1	1	4	16	10000	0	0	0	0	0	0	0	0	0	0	0
37	1	1	1	4	16	10000	0	0	0	0	0	0	0	0	0	0	0
38	2	1	1	4	32	10000	0	0	0	0	0	0	0	0	0	0	0
39	2	1	1	4	32	10000	0	0	0	0	0	0	0	0	0	0	0
40	2	1	1	4	32	10000	0	0	0	0	0	0	0	0	0	0	0
41	1	1	1	5	1	16000	0	0	0	0	0	0	0	0	0	0	0
42	1	1	1	5	1	16000	0	0	0	0	0	0	0	0	0	0	0
43	1	1	1	5	1	16000	0	0	0	0	0	0	0	0	0	0	0
44	1	1	1	5	1	16000	0	0	0	0	0	0	0	0	0	0	0
45	1	1	1	5	1	16000	0	0	0	0	0	0	0	0	0	0	0
46	1	1	1	5	16	10000	0	0	0	0	0	0	0	0	0	0	0
47	1	1	1	5	16	10000	0	0	0	0	0	0	0	0	0	0	0
48	2	1	1	5	32	10000	0	0	0	0	0	0	0	0	0	0	0
49	2	1	1	5	32	10000	0	0	0	0	0	0	0	0	0	0	0
50	2	1	1	5	32	10000	0	0	0	0	0	0	0	0	0	0	0
51	1	1	1	6	1	16000	0	0	0	0	0	0	0	0	0	0	0
52	1	1	1	6	1	16000	0	0	0	0	0	0	0	0	0	0	0
53	1	1	1	6	1	16000	0	0	0	0	0	0	0	0	0	0	0
54	1	1	1	6	1	16000	0	0	0	0	0	0	0	0	0	0	0
55	1	1	1	6	1	16000	0	0	0	0	0	0	0	0	0	0	0
56	1	1	1	6	16	10000	0	0	0	0	0	0	0	0	0	0	0

UNCLASSIFIED TRUCK DATA

TRUCK	TYPE	MISSION	STATUS	OWNER	MIX	LOAD	EXT	FAIL	KN181	KN182	KN183	KN184	KN185	KN186	KN187	KN188
57	1	1	1	6	16	10000	0	0	0	0	0	0	0	0	0	0
58	2	1	1	6	32	10000	0	0	0	0	0	0	0	0	0	0
59	2	1	1	6	32	10000	0	0	0	0	0	0	0	0	0	0
60	2	1	1	6	32	10000	0	0	0	0	0	0	0	0	0	0
61	1	1	1	7	1	10000	0	0	0	0	0	0	0	0	0	0
62	1	1	1	7	1	10000	0	0	0	0	0	0	0	0	0	0
63	1	1	1	7	1	10000	0	0	0	0	0	0	0	0	0	0
64	2	1	1	7	32	10000	0	0	0	0	0	0	0	0	0	0
65	2	1	1	7	32	10000	0	0	0	0	0	0	0	0	0	0
66	1	1	1	7	16	10000	0	0	0	0	0	0	0	0	0	0
67	1	1	1	7	16	10000	0	0	0	0	0	0	0	0	0	0
68	2	1	1	7	32	10000	0	0	0	0	0	0	0	0	0	0
69	2	1	1	7	32	10000	0	0	0	0	0	0	0	0	0	0
70	2	1	1	7	32	10000	0	0	0	0	0	0	0	0	0	0
71	2	1	1	7	32	10000	0	0	0	0	0	0	0	0	0	0
72	1	1	1	8	1	10000	0	0	0	0	0	0	0	0	0	0
73	1	1	1	8	1	10000	0	0	0	0	0	0	0	0	0	0
74	1	1	1	8	1	10000	0	0	0	0	0	0	0	0	0	0
75	2	1	1	8	32	10000	0	0	0	0	0	0	0	0	0	0
76	1	1	1	8	16	10000	0	0	0	0	0	0	0	0	0	0
77	1	1	1	8	16	10000	0	0	0	0	0	0	0	0	0	0
78	2	1	1	8	32	10000	0	0	0	0	0	0	0	0	0	0
79	2	1	1	8	32	10000	0	0	0	0	0	0	0	0	0	0
80	2	1	1	8	32	10000	0	0	0	0	0	0	0	0	0	0
81	2	1	1	8	32	10000	0	0	0	0	0	0	0	0	0	0
82	2	1	1	8	32	10000	0	0	0	0	0	0	0	0	0	0
83	1	1	1	9	16	10000	0	0	0	0	0	0	0	0	0	0
84	1	1	1	9	16	10000	0	0	0	0	0	0	0	0	0	0
85	1	1	1	9	16	10000	0	0	0	0	0	0	0	0	0	0
86	1	1	1	9	16	10000	0	0	0	0	0	0	0	0	0	0
87	2	1	1	9	32	10000	0	0	0	0	0	0	0	0	0	0
88	2	1	1	9	32	10000	0	0	0	0	0	0	0	0	0	0
89	2	1	1	9	32	10000	0	0	0	0	0	0	0	0	0	0
90	2	1	1	9	32	10000	0	0	0	0	0	0	0	0	0	0
91	2	1	1	9	32	10000	0	0	0	0	0	0	0	0	0	0
92	2	1	1	9	32	10000	0	0	0	0	0	0	0	0	0	0
93	2	1	1	9	32	10000	0	0	0	0	0	0	0	0	0	0
94	2	1	1	9	32	10000	0	0	0	0	0	0	0	0	0	0
95	2	1	1	9	32	10000	0	0	0	0	0	0	0	0	0	0
96	1	1	1	9	1	10000	0	0	0	0	0	0	0	0	0	0
97	1	1	1	9	1	10000	0	0	0	0	0	0	0	0	0	0
98	0	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
99	1	1	1	10	1	10000	0	0	0	0	0	0	0	0	0	0
100	1	1	1	10	1	10000	0	0	0	0	0	0	0	0	0	0
101	2	1	1	10	32	10000	0	0	0	0	0	0	0	0	0	0
102	2	1	1	10	32	10000	0	0	0	0	0	0	0	0	0	0
103	1	1	1	10	16	10000	0	0	0	0	0	0	0	0	0	0
104	1	1	1	10	16	10000	0	0	0	0	0	0	0	0	0	0
105	1	1	1	10	16	10000	0	0	0	0	0	0	0	0	0	0
106	1	1	1	10	16	10000	0	0	0	0	0	0	0	0	0	0
107	2	1	1	10	16	10000	0	0	0	0	0	0	0	0	0	0
108	2	1	1	10	32	10000	0	0	0	0	0	0	0	0	0	0
109	2	1	1	10	32	10000	0	0	0	0	0	0	0	0	0	0
110	2	1	1	10	32	10000	0	0	0	0	0	0	0	0	0	0
111	2	1	1	10	32	10000	0	0	0	0	0	0	0	0	0	0
112	2	1	1	10	32	10000	0	0	0	0	0	0	0	0	0	0

\*\*\*\*\* INTRUCK DATA \*\*\*\*\*

INTRUCK	TYPE	MISSION	STATUS	OWNER	MIX	2	LOAD	NEXT	FAIL	KNIR2	KNIR3	KNIR4	KNIR5	KNIR6	KNIR7	KNIR8
115	2	1	1	10	32	10000	0	0	0	0	0	0	0	0	0	0
116	1	1	1	11	1	10000	0	0	0	0	0	0	0	0	0	0
117	1	1	1	11	1	10000	0	0	0	0	0	0	0	0	0	0
118	1	1	1	11	1	10000	0	0	0	0	0	0	0	0	0	0
119	1	1	1	11	16	10000	0	0	0	0	0	0	0	0	0	0
120	1	1	1	11	16	10000	0	0	0	0	0	0	0	0	0	0
121	1	1	1	11	16	10000	0	0	0	0	0	0	0	0	0	0
122	2	1	1	11	32	10000	0	0	0	0	0	0	0	0	0	0
123	2	1	1	11	32	10000	0	0	0	0	0	0	0	0	0	0
124	2	1	1	11	32	10000	0	0	0	0	0	0	0	0	0	0
125	2	1	1	11	32	10000	0	0	0	0	0	0	0	0	0	0
126	2	1	1	11	32	10000	0	0	0	0	0	0	0	0	0	0
127	2	1	1	11	32	10000	0	0	0	0	0	0	0	0	0	0
128	0	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0
129	0	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0
130	0	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0
131	0	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0
132	0	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0
133	0	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0
134	1	1	1	12	1	10000	0	0	0	0	0	0	0	0	0	0
135	1	1	1	12	1	10000	0	0	0	0	0	0	0	0	0	0
136	1	1	1	12	1	10000	0	0	0	0	0	0	0	0	0	0
137	1	1	1	12	1	10000	0	0	0	0	0	0	0	0	0	0
138	1	1	1	12	16	10000	0	0	0	0	0	0	0	0	0	0
139	1	1	1	12	16	10000	0	0	0	0	0	0	0	0	0	0
140	1	1	1	12	16	10000	0	0	0	0	0	0	0	0	0	0
141	1	1	1	12	16	10000	0	0	0	0	0	0	0	0	0	0
142	2	1	1	12	32	10000	0	0	0	0	0	0	0	0	0	0
143	2	1	1	12	32	10000	0	0	0	0	0	0	0	0	0	0
144	2	1	1	12	32	10000	0	0	0	0	0	0	0	0	0	0
145	2	1	1	12	32	10000	0	0	0	0	0	0	0	0	0	0
146	2	1	1	12	32	10000	0	0	0	0	0	0	0	0	0	0
147	2	1	1	12	32	10000	0	0	0	0	0	0	0	0	0	0
148	0	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0
149	0	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0
150	0	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0
151	1	1	1	13	1	10000	0	0	0	0	0	0	0	0	0	0
152	1	1	1	13	1	10000	0	0	0	0	0	0	0	0	0	0
153	1	1	1	13	1	10000	0	0	0	0	0	0	0	0	0	0
154	1	1	1	13	1	10000	0	0	0	0	0	0	0	0	0	0
155	1	1	1	13	16	10000	0	0	0	0	0	0	0	0	0	0
156	1	1	1	13	16	10000	0	0	0	0	0	0	0	0	0	0
157	1	1	1	13	16	10000	0	0	0	0	0	0	0	0	0	0
158	1	1	1	13	16	10000	0	0	0	0	0	0	0	0	0	0
159	2	1	1	13	32	10000	0	0	0	0	0	0	0	0	0	0
160	2	1	1	13	32	10000	0	0	0	0	0	0	0	0	0	0
161	2	1	1	13	32	10000	0	0	0	0	0	0	0	0	0	0
162	2	1	1	13	32	10000	0	0	0	0	0	0	0	0	0	0
163	2	1	1	13	32	10000	0	0	0	0	0	0	0	0	0	0
164	2	1	1	13	32	10000	0	0	0	0	0	0	0	0	0	0
165	0	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0
166	0	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0
167	0	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0
168	1	1	1	14	1	10000	0	0	0	0	0	0	0	0	0	0

UNCLASSIFIED \* \* \* \* \* TRUCK DATA \*\*\*\*\*

TRUCK	TYPE	MISSION	STATUS	OWNER	MIX	R	LOAD	EXT	FAIL	KN181	KN182	KN183	KN184	KN185	KN186	KN187	KN188
169	1	1	1	14	1	1	10000	0	0	0	0	0	0	0	0	0	0
170	1	1	1	14	1	1	10000	0	0	0	0	0	0	0	0	0	0
171	1	1	1	14	1	1	10000	0	0	0	0	0	0	0	0	0	0
172	1	1	1	14	16	1	10000	0	0	0	0	0	0	0	0	0	0
173	1	1	1	14	16	1	10000	0	0	0	0	0	0	0	0	0	0
174	1	1	1	14	16	1	10000	0	0	0	0	0	0	0	0	0	0
175	1	1	1	14	32	1	10000	0	0	0	0	0	0	0	0	0	0
176	2	1	1	14	32	1	10000	0	0	0	0	0	0	0	0	0	0
177	2	1	1	14	32	1	10000	0	0	0	0	0	0	0	0	0	0
178	2	1	1	14	32	1	10000	0	0	0	0	0	0	0	0	0	0
179	2	1	1	14	32	1	10000	0	0	0	0	0	0	0	0	0	0
180	2	1	1	14	32	1	10000	0	0	0	0	0	0	0	0	0	0
181	2	1	1	14	32	1	10000	0	0	0	0	0	0	0	0	0	0
182	1	1	1	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
183	1	1	1	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
184	1	1	1	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
185	1	1	1	15	1	1	10000	0	0	0	0	0	0	0	0	0	0
186	1	1	1	15	1	1	10000	0	0	0	0	0	0	0	0	0	0
187	1	1	1	15	1	1	10000	0	0	0	0	0	0	0	0	0	0
188	1	1	1	15	2	1	10000	0	0	0	0	0	0	0	0	0	0
189	1	1	1	15	2	1	10000	0	0	0	0	0	0	0	0	0	0
190	1	1	1	15	2	1	10000	0	0	0	0	0	0	0	0	0	0
191	1	1	1	15	2	1	10000	0	0	0	0	0	0	0	0	0	0
192	1	1	1	15	16	1	10000	0	0	0	0	0	0	0	0	0	0
193	1	1	1	15	16	1	10000	0	0	0	0	0	0	0	0	0	0
194	1	1	1	15	16	1	10000	0	0	0	0	0	0	0	0	0	0
195	1	1	1	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
196	1	1	1	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
197	1	1	1	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
198	1	1	1	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
199	1	1	1	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
200	1	1	1	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
201	1	1	1	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
202	1	1	1	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
203	1	1	1	16	1	1	10000	0	0	0	0	0	0	0	0	0	0
204	1	1	1	16	1	1	10000	0	0	0	0	0	0	0	0	0	0
205	1	1	1	16	1	1	10000	0	0	0	0	0	0	0	0	0	0
206	1	1	1	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
207	1	1	1	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
208	1	1	1	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
209	1	1	1	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
210	1	1	1	16	2	1	10000	0	0	0	0	0	0	0	0	0	0
211	1	1	1	16	2	1	10000	0	0	0	0	0	0	0	0	0	0
212	1	1	1	16	2	1	10000	0	0	0	0	0	0	0	0	0	0
213	1	1	1	16	2	1	10000	0	0	0	0	0	0	0	0	0	0
214	1	1	1	16	16	1	10000	0	0	0	0	0	0	0	0	0	0
215	1	1	1	16	16	1	10000	0	0	0	0	0	0	0	0	0	0
216	1	1	1	16	16	1	10000	0	0	0	0	0	0	0	0	0	0
217	1	1	1	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
218	1	1	1	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
219	1	1	1	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
220	1	1	1	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
221	1	1	1	17	4	1	10000	0	0	0	0	0	0	0	0	0	0
222	1	1	1	17	4	1	10000	0	0	0	0	0	0	0	0	0	0
223	1	1	1	17	5	1	10000	0	0	0	0	0	0	0	0	0	0
224	1	1	1	17	5	1	10000	0	0	0	0	0	0	0	0	0	0

Listing 9. ITRUCK Array (Cont'd)

UNCLASSIFIED \* \* \* \* \*



TRUCK	TYPE	MISSION	STATUS	OWNER	MIX	T	LOAD	NEXT	FAIL	KNIR1	KNIR2	KNIR3	KNIR4	KNIR5	KNIR6	KNIR7	KNIR8
225	1	1	1	17	5	10000				0	0	0	0	0	0	0	0
226	1	1	1	17	5	10000				0	0	0	0	0	0	0	0
227	1	1	1	17	5	10000				0	0	0	0	0	0	0	0
228	1	1	1	17	11	10000				0	0	0	0	0	0	0	0
229	1	1	1	17	12	10000				0	0	0	0	0	0	0	0
230	1	1	1	17	13	10000				0	0	0	0	0	0	0	0
231	1	1	1	18	4	10000				0	0	0	0	0	0	0	0
232	1	1	1	18	4	10000				0	0	0	0	0	0	0	0
233	1	1	1	18	5	10000				0	0	0	0	0	0	0	0
234	1	1	1	18	5	10000				0	0	0	0	0	0	0	0
235	1	1	1	18	5	10000				0	0	0	0	0	0	0	0
236	1	1	1	18	5	10000				0	0	0	0	0	0	0	0
237	1	1	1	18	5	10000				0	0	0	0	0	0	0	0
238	1	1	1	18	11	10000				0	0	0	0	0	0	0	0
239	1	1	1	18	12	10000				0	0	0	0	0	0	0	0
240	1	1	1	18	13	10000				0	0	0	0	0	0	0	0
241	1	1	1	19	4	10000				0	0	0	0	0	0	0	0
242	1	1	1	19	4	10000				0	0	0	0	0	0	0	0
243	1	1	1	19	5	10000				0	0	0	0	0	0	0	0
244	1	1	1	19	5	10000				0	0	0	0	0	0	0	0
245	1	1	1	19	5	10000				0	0	0	0	0	0	0	0
246	1	1	1	19	5	10000				0	0	0	0	0	0	0	0
247	1	1	1	19	5	10000				0	0	0	0	0	0	0	0
248	1	1	1	19	11	10000				0	0	0	0	0	0	0	0
249	1	1	1	19	12	10000				0	0	0	0	0	0	0	0
250	1	1	1	19	13	10000				0	0	0	0	0	0	0	0
251	1	1	1	20	4	10000				0	0	0	0	0	0	0	0
252	1	1	1	20	4	10000				0	0	0	0	0	0	0	0
253	1	1	1	20	5	10000				0	0	0	0	0	0	0	0
254	1	1	1	20	5	10000				0	0	0	0	0	0	0	0
255	1	1	1	20	5	10000				0	0	0	0	0	0	0	0
256	1	1	1	20	5	10000				0	0	0	0	0	0	0	0
257	1	1	1	20	5	10000				0	0	0	0	0	0	0	0
258	1	1	1	20	11	10000				0	0	0	0	0	0	0	0
259	1	1	1	20	12	10000				0	0	0	0	0	0	0	0
260	1	1	1	20	13	10000				0	0	0	0	0	0	0	0
261	1	1	1	21	4	10000				0	0	0	0	0	0	0	0
262	1	1	1	21	4	10000				0	0	0	0	0	0	0	0
263	1	1	1	21	5	10000				0	0	0	0	0	0	0	0
264	1	1	1	21	5	10000				0	0	0	0	0	0	0	0
265	1	1	1	21	5	10000				0	0	0	0	0	0	0	0
266	1	1	1	21	5	10000				0	0	0	0	0	0	0	0
267	1	1	1	21	5	10000				0	0	0	0	0	0	0	0
268	1	1	1	21	11	10000				0	0	0	0	0	0	0	0
269	1	1	1	21	12	10000				0	0	0	0	0	0	0	0
270	1	1	1	21	13	10000				0	0	0	0	0	0	0	0
271	1	1	1	22	4	10000				0	0	0	0	0	0	0	0
272	1	1	1	22	4	10000				0	0	0	0	0	0	0	0
273	1	1	1	22	5	10000				0	0	0	0	0	0	0	0
274	1	1	1	22	5	10000				0	0	0	0	0	0	0	0
275	1	1	1	22	5	10000				0	0	0	0	0	0	0	0
276	1	1	1	22	5	10000				0	0	0	0	0	0	0	0
277	1	1	1	22	5	10000				0	0	0	0	0	0	0	0
278	1	1	1	22	11	10000				0	0	0	0	0	0	0	0
279	1	1	1	22	12	10000				0	0	0	0	0	0	0	0
280	1	1	1	22	13	10000				0	0	0	0	0	0	0	0

\*\*\*\*\* ITRUCK DATA \*\*\*\*\*

ITRUCK	TYPE	MISSION	STATUS	OWNER	MIX	3	LOAD	NEXT	FAIL	KNIR1	KNIR2	KNIR3	KNIR4	KNIR5	KNIR6	KNIR7	KNIR8
281	1	1	1	23	4	10000	0	0	0	0	0	0	0	0	0	0	0
282	1	1	1	23	4	10000	0	0	0	0	0	0	0	0	0	0	0
283	1	1	1	23	5	10000	0	0	0	0	0	0	0	0	0	0	0
284	1	1	1	23	5	10000	0	0	0	0	0	0	0	0	0	0	0
285	1	1	1	23	5	10000	0	0	0	0	0	0	0	0	0	0	0
286	1	1	1	23	5	10000	0	0	0	0	0	0	0	0	0	0	0
287	1	1	1	23	5	10000	0	0	0	0	0	0	0	0	0	0	0
288	1	1	1	23	11	10000	0	0	0	0	0	0	0	0	0	0	0
289	1	1	1	23	12	10000	0	0	0	0	0	0	0	0	0	0	0
290	1	1	1	23	13	10000	0	0	0	0	0	0	0	0	0	0	0
291	1	1	1	24	4	10000	0	0	0	0	0	0	0	0	0	0	0
292	1	1	1	24	4	10000	0	0	0	0	0	0	0	0	0	0	0
293	1	1	1	24	5	10000	0	0	0	0	0	0	0	0	0	0	0
294	1	1	1	24	5	10000	0	0	0	0	0	0	0	0	0	0	0
295	1	1	1	24	5	10000	0	0	0	0	0	0	0	0	0	0	0
296	1	1	1	24	5	10000	0	0	0	0	0	0	0	0	0	0	0
297	1	1	1	24	5	10000	0	0	0	0	0	0	0	0	0	0	0
298	1	1	1	24	11	10000	0	0	0	0	0	0	0	0	0	0	0
299	1	1	1	24	12	10000	0	0	0	0	0	0	0	0	0	0	0
300	1	1	1	24	13	10000	0	0	0	0	0	0	0	0	0	0	0
301	1	1	1	25	4	10000	0	0	0	0	0	0	0	0	0	0	0
302	1	1	1	25	4	10000	0	0	0	0	0	0	0	0	0	0	0
303	1	1	1	25	5	10000	0	0	0	0	0	0	0	0	0	0	0
304	1	1	1	25	5	10000	0	0	0	0	0	0	0	0	0	0	0
305	1	1	1	25	5	10000	0	0	0	0	0	0	0	0	0	0	0
306	1	1	1	25	5	10000	0	0	0	0	0	0	0	0	0	0	0
307	1	1	1	25	5	10000	0	0	0	0	0	0	0	0	0	0	0
308	1	1	1	25	11	10000	0	0	0	0	0	0	0	0	0	0	0
309	1	1	1	25	12	10000	0	0	0	0	0	0	0	0	0	0	0
310	1	1	1	25	13	10000	0	0	0	0	0	0	0	0	0	0	0
311	1	1	1	26	4	10000	0	0	0	0	0	0	0	0	0	0	0
312	1	1	1	26	4	10000	0	0	0	0	0	0	0	0	0	0	0
313	1	1	1	26	5	10000	0	0	0	0	0	0	0	0	0	0	0
314	1	1	1	26	5	10000	0	0	0	0	0	0	0	0	0	0	0
315	1	1	1	26	5	10000	0	0	0	0	0	0	0	0	0	0	0
316	1	1	1	26	5	10000	0	0	0	0	0	0	0	0	0	0	0
317	1	1	1	26	5	10000	0	0	0	0	0	0	0	0	0	0	0
318	1	1	1	26	11	10000	0	0	0	0	0	0	0	0	0	0	0
319	1	1	1	26	12	10000	0	0	0	0	0	0	0	0	0	0	0
320	1	1	1	26	13	10000	0	0	0	0	0	0	0	0	0	0	0
321	1	1	1	27	4	10000	0	0	0	0	0	0	0	0	0	0	0
322	1	1	1	27	4	10000	0	0	0	0	0	0	0	0	0	0	0
323	1	1	1	27	5	10000	0	0	0	0	0	0	0	0	0	0	0
324	1	1	1	27	5	10000	0	0	0	0	0	0	0	0	0	0	0
325	1	1	1	27	5	10000	0	0	0	0	0	0	0	0	0	0	0
326	1	1	1	27	5	10000	0	0	0	0	0	0	0	0	0	0	0
327	1	1	1	27	5	10000	0	0	0	0	0	0	0	0	0	0	0
328	1	1	1	27	11	10000	0	0	0	0	0	0	0	0	0	0	0
329	1	1	1	27	12	10000	0	0	0	0	0	0	0	0	0	0	0
330	1	1	1	27	13	10000	0	0	0	0	0	0	0	0	0	0	0
331	1	1	1	28	4	10000	0	0	0	0	0	0	0	0	0	0	0
332	1	1	1	28	4	10000	0	0	0	0	0	0	0	0	0	0	0
333	1	1	1	28	5	10000	0	0	0	0	0	0	0	0	0	0	0
334	1	1	1	28	5	10000	0	0	0	0	0	0	0	0	0	0	0
335	1	1	1	28	5	10000	0	0	0	0	0	0	0	0	0	0	0
336	1	1	1	28	5	10000	0	0	0	0	0	0	0	0	0	0	0

\*\*\*\*\* TRUCK DATA \*\*\*\*\*

TRUCK	TYPE	MISSION	STATUS	OWNER	HIX	LOAD	NEKI	FAIL	KNTR1	KNTR2	KNTR3	KNTR4	KNTR5	KNTR6	KNTR7	KNTR8
337	1	1	1	28	5	10000	0	0	0	0	0	0	0	0	0	0
338	1	1	1	28	11	10000	0	0	0	0	0	0	0	0	0	0
339	1	1	1	26	12	10000	0	0	0	0	0	0	0	0	0	0
340	1	1	1	28	13	10000	0	0	0	0	0	0	0	0	0	0
341	1	1	1	29	4	10000	0	0	0	0	0	0	0	0	0	0
342	1	1	1	29	4	10000	0	0	0	0	0	0	0	0	0	0
343	1	1	1	29	5	10000	0	0	0	0	0	0	0	0	0	0
344	1	1	1	29	5	10000	0	0	0	0	0	0	0	0	0	0
345	1	1	1	29	5	10000	0	0	0	0	0	0	0	0	0	0
346	1	1	1	29	5	10000	0	0	0	0	0	0	0	0	0	0
347	1	1	1	29	5	10000	0	0	0	0	0	0	0	0	0	0
348	1	1	1	29	11	10000	0	0	0	0	0	0	0	0	0	0
349	1	1	1	29	12	10000	0	0	0	0	0	0	0	0	0	0
350	1	1	1	29	13	10000	0	0	0	0	0	0	0	0	0	0
351	1	1	1	30	4	10000	0	0	0	0	0	0	0	0	0	0
352	1	1	1	30	4	10000	0	0	0	0	0	0	0	0	0	0
353	1	1	1	30	5	10000	0	0	0	0	0	0	0	0	0	0
354	1	1	1	30	5	10000	0	0	0	0	0	0	0	0	0	0
355	1	1	1	30	5	10000	0	0	0	0	0	0	0	0	0	0
356	1	1	1	30	5	10000	0	0	0	0	0	0	0	0	0	0
357	1	1	1	30	5	10000	0	0	0	0	0	0	0	0	0	0
358	1	1	1	30	11	10000	0	0	0	0	0	0	0	0	0	0
359	1	1	1	30	12	10000	0	0	0	0	0	0	0	0	0	0
360	1	1	1	30	13	10000	0	0	0	0	0	0	0	0	0	0
361	1	1	1	31	4	10000	0	0	0	0	0	0	0	0	0	0
362	1	1	1	31	4	10000	0	0	0	0	0	0	0	0	0	0
363	1	1	1	31	5	10000	0	0	0	0	0	0	0	0	0	0
364	1	1	1	31	5	10000	0	0	0	0	0	0	0	0	0	0
365	1	1	1	31	5	10000	0	0	0	0	0	0	0	0	0	0
366	1	1	1	31	5	10000	0	0	0	0	0	0	0	0	0	0
367	1	1	1	31	5	10000	0	0	0	0	0	0	0	0	0	0
368	1	1	1	31	11	10000	0	0	0	0	0	0	0	0	0	0
369	1	1	1	31	12	10000	0	0	0	0	0	0	0	0	0	0
370	1	1	1	31	13	10000	0	0	0	0	0	0	0	0	0	0
371	1	1	1	32	4	10000	0	0	0	0	0	0	0	0	0	0
372	1	1	1	32	4	10000	0	0	0	0	0	0	0	0	0	0
373	1	1	1	32	5	10000	0	0	0	0	0	0	0	0	0	0
374	1	1	1	32	5	10000	0	0	0	0	0	0	0	0	0	0
375	1	1	1	32	5	10000	0	0	0	0	0	0	0	0	0	0
376	1	1	1	32	5	10000	0	0	0	0	0	0	0	0	0	0
377	1	1	1	32	5	10000	0	0	0	0	0	0	0	0	0	0
378	1	1	1	32	11	10000	0	0	0	0	0	0	0	0	0	0
379	1	1	1	32	12	10000	0	0	0	0	0	0	0	0	0	0
380	1	1	1	32	13	10000	0	0	0	0	0	0	0	0	0	0
381	1	1	1	33	4	10000	0	0	0	0	0	0	0	0	0	0
382	1	1	1	33	4	10000	0	0	0	0	0	0	0	0	0	0
383	1	1	1	33	5	10000	0	0	0	0	0	0	0	0	0	0
384	1	1	1	33	5	10000	0	0	0	0	0	0	0	0	0	0
385	1	1	1	33	5	10000	0	0	0	0	0	0	0	0	0	0
386	1	1	1	33	5	10000	0	0	0	0	0	0	0	0	0	0
387	1	1	1	33	5	10000	0	0	0	0	0	0	0	0	0	0
388	1	1	1	33	11	10000	0	0	0	0	0	0	0	0	0	0
389	1	1	1	33	12	10000	0	0	0	0	0	0	0	0	0	0
390	1	1	1	33	13	10000	0	0	0	0	0	0	0	0	0	0
391	1	1	1	34	4	10000	0	0	0	0	0	0	0	0	0	0
392	1	1	1	34	4	10000	0	0	0	0	0	0	0	0	0	0

\*\*\*\*\* TRUCK DATA \*\*\*\*\*

TRUCK	TYPE	MISSION	STATUS	OWNER	MIX	R	LOAD	NEXT	FAIL	KNIR1	KNIR2	KNIR3	KNIR4	KNIR5	KNIR6	KNIR7	KNIR8
393	1	1	1	34	5	10000	0	0	0	0	0	0	0	0	0	0	0
394	1	1	1	34	5	10000	0	0	0	0	0	0	0	0	0	0	0
395	1	1	1	34	5	10000	0	0	0	0	0	0	0	0	0	0	0
396	1	1	1	34	5	10000	0	0	0	0	0	0	0	0	0	0	0
397	1	1	1	34	5	10000	0	0	0	0	0	0	0	0	0	0	0
398	1	1	1	34	5	10000	0	0	0	0	0	0	0	0	0	0	0
399	1	1	1	34	11	10000	0	0	0	0	0	0	0	0	0	0	0
400	1	1	1	34	12	10000	0	0	0	0	0	0	0	0	0	0	0
401	1	1	1	34	13	10000	0	0	0	0	0	0	0	0	0	0	0
402	1	1	1	35	4	10000	0	0	0	0	0	0	0	0	0	0	0
403	1	1	1	35	5	10000	0	0	0	0	0	0	0	0	0	0	0
404	1	1	1	35	5	10000	0	0	0	0	0	0	0	0	0	0	0
405	1	1	1	35	5	10000	0	0	0	0	0	0	0	0	0	0	0
406	1	1	1	35	5	10000	0	0	0	0	0	0	0	0	0	0	0
407	1	1	1	35	5	10000	0	0	0	0	0	0	0	0	0	0	0
408	1	1	1	35	5	10000	0	0	0	0	0	0	0	0	0	0	0
409	1	1	1	35	11	10000	0	0	0	0	0	0	0	0	0	0	0
410	1	1	1	35	12	10000	0	0	0	0	0	0	0	0	0	0	0
411	1	1	1	35	13	10000	0	0	0	0	0	0	0	0	0	0	0
412	1	1	1	36	4	10000	0	0	0	0	0	0	0	0	0	0	0
413	1	1	1	36	5	10000	0	0	0	0	0	0	0	0	0	0	0
414	1	1	1	36	5	10000	0	0	0	0	0	0	0	0	0	0	0
415	1	1	1	36	5	10000	0	0	0	0	0	0	0	0	0	0	0
416	1	1	1	36	5	10000	0	0	0	0	0	0	0	0	0	0	0
417	1	1	1	36	5	10000	0	0	0	0	0	0	0	0	0	0	0
418	1	1	1	36	11	10000	0	0	0	0	0	0	0	0	0	0	0
419	1	1	1	36	12	10000	0	0	0	0	0	0	0	0	0	0	0
420	1	1	1	36	13	10000	0	0	0	0	0	0	0	0	0	0	0
421	1	1	1	37	6	10000	0	0	0	0	0	0	0	0	0	0	0
422	1	1	1	37	6	10000	0	0	0	0	0	0	0	0	0	0	0
423	1	1	1	37	6	10000	0	0	0	0	0	0	0	0	0	0	0
424	1	1	1	37	7	10000	0	0	0	0	0	0	0	0	0	0	0
425	1	1	1	37	7	10000	0	0	0	0	0	0	0	0	0	0	0
426	1	1	1	37	7	10000	0	0	0	0	0	0	0	0	0	0	0
427	1	1	1	37	7	10000	0	0	0	0	0	0	0	0	0	0	0
428	1	1	1	37	7	10000	0	0	0	0	0	0	0	0	0	0	0
429	1	1	1	37	7	10000	0	0	0	0	0	0	0	0	0	0	0
430	1	1	1	37	7	10000	0	0	0	0	0	0	0	0	0	0	0
431	1	1	1	37	7	10000	0	0	0	0	0	0	0	0	0	0	0
432	1	1	1	37	15	10000	0	0	0	0	0	0	0	0	0	0	0
433	1	1	1	37	15	10000	0	0	0	0	0	0	0	0	0	0	0
434	1	1	1	38	6	10000	0	0	0	0	0	0	0	0	0	0	0
435	1	1	1	38	6	10000	0	0	0	0	0	0	0	0	0	0	0
436	1	1	1	38	6	10000	0	0	0	0	0	0	0	0	0	0	0
437	1	1	1	38	7	10000	0	0	0	0	0	0	0	0	0	0	0
438	1	1	1	38	7	10000	0	0	0	0	0	0	0	0	0	0	0
439	1	1	1	38	7	10000	0	0	0	0	0	0	0	0	0	0	0
440	1	1	1	38	7	10000	0	0	0	0	0	0	0	0	0	0	0
441	1	1	1	38	7	10000	0	0	0	0	0	0	0	0	0	0	0
442	1	1	1	38	7	10000	0	0	0	0	0	0	0	0	0	0	0
443	1	1	1	38	7	10000	0	0	0	0	0	0	0	0	0	0	0
444	1	1	1	38	7	10000	0	0	0	0	0	0	0	0	0	0	0
445	1	1	1	38	15	10000	0	0	0	0	0	0	0	0	0	0	0
446	1	1	1	38	15	10000	0	0	0	0	0	0	0	0	0	0	0
447	1	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
448	1	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0

Listing 9. ITRUCK Array (Cont'd)

\*\*\*\*\* TRUCK DATA \*\*\*\*\*

TRUCK	TYPE	MISSION	STATUS	OWNER	MIX	1	LOAD	NEXT	FAIL	KNTR1	KNTR2	KNTR3	KNTR4	KNTR5	KNTR6	KNTR7	KNTR8
449	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
450	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
451	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
452	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
453	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
454	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
455	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
456	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
457	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
458	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
459	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
460	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
461	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
462	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
463	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
464	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
465	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
466	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
467	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
468	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
469	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
470	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
471	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
472	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
473	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
474	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
475	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
476	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
477	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
478	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
479	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
480	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
481	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
482	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
483	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
484	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
485	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
486	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
487	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
488	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
489	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
490	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
491	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
492	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
493	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
494	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
495	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
496	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
497	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
498	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
499	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
500	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
501	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
502	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
503	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0
504	4	1	1	39	10	10000	0	0	0	0	0	0	0	0	0	0	0

Listing 9. ITRUCK Array (Cont'd)

\*\*\*\*\* TRUCK DATA \*\*\*\*\*

TRUCK	TYPE	MISSION	STATUS	OWNER	MIX	LOAD	HEAVY	FAIL	KNIR1	KNIR2	KNIR3	KNIR4	KNIR5	KNIR6	KNIR7	KNIR8
505	1	1	1	42	40	10000	0	0	0	0	0	0	0	0	0	0
506	1	1	1	42	40	10000	0	0	0	0	0	0	0	0	0	0
507	1	1	1	42	40	10000	0	0	0	0	0	0	0	0	0	0
508	1	1	1	42	40	10000	0	0	0	0	0	0	0	0	0	0
509	1	1	1	43	40	10000	0	0	0	0	0	0	0	0	0	0
510	1	1	1	43	40	10000	0	0	0	0	0	0	0	0	0	0
511	1	1	1	43	5	10000	0	0	0	0	0	0	0	0	0	0
512	1	1	1	43	5	10000	0	0	0	0	0	0	0	0	0	0
513	1	1	1	43	5	10000	0	0	0	0	0	0	0	0	0	0
514	1	1	1	43	11	10000	0	0	0	0	0	0	0	0	0	0
515	1	1	1	43	12	10000	0	0	0	0	0	0	0	0	0	0
516	1	1	1	43	13	10000	0	0	0	0	0	0	0	0	0	0
517	1	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0
518	1	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0
519	1	1	1	44	4	10000	0	0	0	0	0	0	0	0	0	0
520	1	1	1	44	5	10000	0	0	0	0	0	0	0	0	0	0
521	1	1	1	44	5	10000	0	0	0	0	0	0	0	0	0	0
522	1	1	1	44	5	10000	0	0	0	0	0	0	0	0	0	0
523	1	1	1	44	5	10000	0	0	0	0	0	0	0	0	0	0
524	1	1	1	44	11	10000	0	0	0	0	0	0	0	0	0	0
525	1	1	1	44	12	10000	0	0	0	0	0	0	0	0	0	0
526	1	1	1	44	13	10000	0	0	0	0	0	0	0	0	0	0
527	1	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0
528	1	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0
529	1	1	1	45	4	10000	0	0	0	0	0	0	0	0	0	0
530	1	1	1	45	5	10000	0	0	0	0	0	0	0	0	0	0
531	1	1	1	45	5	10000	0	0	0	0	0	0	0	0	0	0
532	1	1	1	45	5	10000	0	0	0	0	0	0	0	0	0	0
533	1	1	1	45	5	10000	0	0	0	0	0	0	0	0	0	0
534	1	1	1	45	11	10000	0	0	0	0	0	0	0	0	0	0
535	1	1	1	45	12	10000	0	0	0	0	0	0	0	0	0	0
536	1	1	1	45	13	10000	0	0	0	0	0	0	0	0	0	0
537	1	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0
538	1	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0
539	1	1	1	46	4	10000	0	0	0	0	0	0	0	0	0	0
540	1	1	1	46	5	10000	0	0	0	0	0	0	0	0	0	0
541	1	1	1	46	5	10000	0	0	0	0	0	0	0	0	0	0
542	1	1	1	46	5	10000	0	0	0	0	0	0	0	0	0	0
543	1	1	1	46	5	10000	0	0	0	0	0	0	0	0	0	0
544	1	1	1	46	11	10000	0	0	0	0	0	0	0	0	0	0
545	1	1	1	46	12	10000	0	0	0	0	0	0	0	0	0	0
546	1	1	1	46	13	10000	0	0	0	0	0	0	0	0	0	0
547	1	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0
548	1	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0
549	1	1	1	47	4	10000	0	0	0	0	0	0	0	0	0	0
550	1	1	1	47	5	10000	0	0	0	0	0	0	0	0	0	0
551	1	1	1	47	5	10000	0	0	0	0	0	0	0	0	0	0
552	1	1	1	47	5	10000	0	0	0	0	0	0	0	0	0	0
553	1	1	1	47	5	10000	0	0	0	0	0	0	0	0	0	0
554	1	1	1	47	11	10000	0	0	0	0	0	0	0	0	0	0
555	1	1	1	47	12	10000	0	0	0	0	0	0	0	0	0	0
556	1	1	1	47	13	10000	0	0	0	0	0	0	0	0	0	0
557	1	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0
558	1	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0
559	1	1	1	48	4	10000	0	0	0	0	0	0	0	0	0	0
560	1	1	1	48	5	10000	0	0	0	0	0	0	0	0	0	0

\*\*\*\*\* UNCLASSIFIED \*\*\*\*\*

\*\*\*\*\* TRUCK DATA \*\*\*\*\*

TRUCK	TYPE	MISSION	STATUS	OWNER	MIX	R	LOAD	NEXT	FAIL	U121	KN122	KN123	KN124	KN125	KN126	KN127	KN128
561	1	1	1	48	5	10000	0	0	0	0	0	0	0	0	0	0	0
562	1	1	1	48	5	10000	0	0	0	0	0	0	0	0	0	0	0
563	1	1	1	48	5	10000	0	0	0	0	0	0	0	0	0	0	0
564	1	1	1	48	11	10000	0	0	0	0	0	0	0	0	0	0	0
565	1	1	1	48	12	10000	0	0	0	0	0	0	0	0	0	0	0
566	1	1	1	48	13	10000	0	0	0	0	0	0	0	0	0	0	0
567	1	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0	0
568	1	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0	0
569	1	1	1	49	6	10000	0	0	0	0	0	0	0	0	0	0	0
570	1	1	1	49	6	10000	0	0	0	0	0	0	0	0	0	0	0
571	1	1	1	49	7	10000	0	0	0	0	0	0	0	0	0	0	0
572	1	1	1	49	7	10000	0	0	0	0	0	0	0	0	0	0	0
573	1	1	1	49	7	10000	0	0	0	0	0	0	0	0	0	0	0
574	1	1	1	49	7	10000	0	0	0	0	0	0	0	0	0	0	0
575	1	1	1	49	15	10000	0	0	0	0	0	0	0	0	0	0	0
576	1	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0	0
577	1	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0	0
578	1	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0	0
579	1	1	1	50	6	10000	0	0	0	0	0	0	0	0	0	0	0
580	1	1	1	50	6	10000	0	0	0	0	0	0	0	0	0	0	0
581	1	1	1	50	7	10000	0	0	0	0	0	0	0	0	0	0	0
582	1	1	1	50	7	10000	0	0	0	0	0	0	0	0	0	0	0
583	1	1	1	50	7	10000	0	0	0	0	0	0	0	0	0	0	0
584	1	1	1	50	7	10000	0	0	0	0	0	0	0	0	0	0	0
585	1	1	1	50	15	10000	0	0	0	0	0	0	0	0	0	0	0
586	1	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0	0
587	1	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0	0
588	1	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0	0
589	1	1	1	51	6	10000	0	0	0	0	0	0	0	0	0	0	0
590	1	1	1	51	6	10000	0	0	0	0	0	0	0	0	0	0	0
591	1	1	1	51	7	10000	0	0	0	0	0	0	0	0	0	0	0
592	1	1	1	51	7	10000	0	0	0	0	0	0	0	0	0	0	0
593	1	1	1	51	7	10000	0	0	0	0	0	0	0	0	0	0	0
594	1	1	1	51	7	10000	0	0	0	0	0	0	0	0	0	0	0
595	1	1	1	51	15	10000	0	0	0	0	0	0	0	0	0	0	0
596	1	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0	0
597	1	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0	0
598	1	1	1	0	0	10000	0	0	0	0	0	0	0	0	0	0	0
599	1	1	1	52	6	10000	0	0	0	0	0	0	0	0	0	0	0
600	1	1	1	52	6	10000	0	0	0	0	0	0	0	0	0	0	0
601	1	1	1	52	7	10000	0	0	0	0	0	0	0	0	0	0	0
602	1	1	1	52	7	10000	0	0	0	0	0	0	0	0	0	0	0
603	1	1	1	52	7	10000	0	0	0	0	0	0	0	0	0	0	0
604	1	1	1	52	7	10000	0	0	0	0	0	0	0	0	0	0	0
605	1	1	1	52	7	10000	0	0	0	0	0	0	0	0	0	0	0
606	1	1	1	52	7	10000	0	0	0	0	0	0	0	0	0	0	0
607	1	1	1	52	7	10000	0	0	0	0	0	0	0	0	0	0	0
608	1	1	1	52	15	10000	0	0	0	0	0	0	0	0	0	0	0
609	1	1	1	53	6	10000	0	0	0	0	0	0	0	0	0	0	0
610	1	1	1	53	6	10000	0	0	0	0	0	0	0	0	0	0	0
611	1	1	1	53	7	10000	0	0	0	0	0	0	0	0	0	0	0
612	1	1	1	53	7	10000	0	0	0	0	0	0	0	0	0	0	0
613	1	1	1	53	7	10000	0	0	0	0	0	0	0	0	0	0	0
614	1	1	1	53	7	10000	0	0	0	0	0	0	0	0	0	0	0
615	1	1	1	53	7	10000	0	0	0	0	0	0	0	0	0	0	0
616	1	1	1	53	7	10000	0	0	0	0	0	0	0	0	0	0	0

\*\*\*\*\* UNCLASSIFIED \*\*\*\*\*

\*\*\*\*\* TRUCK DATA \*\*\*\*\*

TRUCK	TYPE	MISSION	STATUS	OWNER	MIX	LOAD	NEXT	FAIL	KNTR1	KNTR2	KNTR3	KNTR4	KNTR5	KNTR6	KNTR7	KNTR8
617	1	1	1	53	7	10000			0	0	0	0	0	0	0	0
618	1	1	1	53	15	10000			0	0	0	0	0	0	0	0
619	1	1	1	54	6	10000			0	0	0	0	0	0	0	0
620	1	1	1	54	6	10000			0	0	0	0	0	0	0	0
621	1	1	1	54	7	10000			0	0	0	0	0	0	0	0
622	1	1	1	54	7	10000			0	0	0	0	0	0	0	0
623	1	1	1	54	7	10000			0	0	0	0	0	0	0	0
624	1	1	1	54	7	10000			0	0	0	0	0	0	0	0
625	1	1	1	54	7	10000			0	0	0	0	0	0	0	0
626	1	1	1	54	7	10000			0	0	0	0	0	0	0	0
627	1	1	1	54	7	10000			0	0	0	0	0	0	0	0
628	1	1	1	54	15	10000			0	0	0	0	0	0	0	0
629	4	1	1	55	10	10000			0	0	0	0	0	0	0	0
630	4	1	1	55	10	10000			0	0	0	0	0	0	0	0
631	4	1	1	55	10	10000			0	0	0	0	0	0	0	0
632	4	1	1	55	10	10000			0	0	0	0	0	0	0	0
633	4	1	1	55	10	10000			0	0	0	0	0	0	0	0
634	4	1	1	55	10	10000			0	0	0	0	0	0	0	0
635	4	1	1	55	10	10000			0	0	0	0	0	0	0	0
636	4	1	1	55	10	10000			0	0	0	0	0	0	0	0
637	4	1	1	55	10	10000			0	0	0	0	0	0	0	0
638	4	1	1	55	40	10000			0	0	0	0	0	0	0	0
639	4	1	1	55	40	10000			0	0	0	0	0	0	0	0
640	4	1	1	55	40	10000			0	0	0	0	0	0	0	0
641	4	1	1	55	40	10000			0	0	0	0	0	0	0	0
642	4	1	1	55	40	10000			0	0	0	0	0	0	0	0
643	4	1	1	55	40	10000			0	0	0	0	0	0	0	0
644	4	1	1	55	40	10000			0	0	0	0	0	0	0	0
645	4	1	1	55	40	10000			0	0	0	0	0	0	0	0
646	4	1	1	55	40	10000			0	0	0	0	0	0	0	0
647	4	1	1	56	10	10000			0	0	0	0	0	0	0	0
648	4	1	1	56	10	10000			0	0	0	0	0	0	0	0
649	4	1	1	56	10	10000			0	0	0	0	0	0	0	0
650	4	1	1	56	10	10000			0	0	0	0	0	0	0	0
651	4	1	1	56	10	10000			0	0	0	0	0	0	0	0
652	4	1	1	56	10	10000			0	0	0	0	0	0	0	0
653	4	1	1	56	10	10000			0	0	0	0	0	0	0	0
654	4	1	1	56	10	10000			0	0	0	0	0	0	0	0
655	4	1	1	56	10	10000			0	0	0	0	0	0	0	0
656	4	1	1	56	40	10000			0	0	0	0	0	0	0	0
657	4	1	1	56	40	10000			0	0	0	0	0	0	0	0
658	4	1	1	56	40	10000			0	0	0	0	0	0	0	0
659	4	1	1	56	40	10000			0	0	0	0	0	0	0	0
660	4	1	1	56	40	10000			0	0	0	0	0	0	0	0
661	4	1	1	56	40	10000			0	0	0	0	0	0	0	0
662	4	1	1	56	40	10000			0	0	0	0	0	0	0	0
663	4	1	1	56	40	10000			0	0	0	0	0	0	0	0
664	4	1	1	56	40	10000			0	0	0	0	0	0	0	0
665	4	1	1	57	10	10000			0	0	0	0	0	0	0	0
666	4	1	1	57	10	10000			0	0	0	0	0	0	0	0
667	4	1	1	57	10	10000			0	0	0	0	0	0	0	0
668	4	1	1	57	10	10000			0	0	0	0	0	0	0	0
669	4	1	1	57	10	10000			0	0	0	0	0	0	0	0
670	4	1	1	57	10	10000			0	0	0	0	0	0	0	0
671	4	1	1	57	10	10000			0	0	0	0	0	0	0	0
672	4	1	1	57	10	10000			0	0	0	0	0	0	0	0

Listing 9. ITRUCK Array (Cont'd)



\*\*\*\*\* TRUCK DATA \*\*\*\*\*

TRUCK	TYPE	MISSION	STATUS	OWNER	MIX	LOAD	NEXT	FAIL	KNTR1	KNTR2	KNTR3	KNTR4	KNTR5	KNTR6	KNTR7	KNTR8
673	4	1	1	57	10	10000	0	0	0	0	0	0	0	0	0	0
674	4	1	1	57	40	10000	0	0	0	0	0	0	0	0	0	0
675	4	1	1	57	40	10000	0	0	0	0	0	0	0	0	0	0
676	4	1	1	57	40	10000	0	0	0	0	0	0	0	0	0	0
677	4	1	1	57	40	10000	0	0	0	0	0	0	0	0	0	0
678	4	1	1	57	40	10000	0	0	0	0	0	0	0	0	0	0
679	4	1	1	57	40	10000	0	0	0	0	0	0	0	0	0	0
680	4	1	1	57	40	10000	0	0	0	0	0	0	0	0	0	0
681	4	1	1	57	40	10000	0	0	0	0	0	0	0	0	0	0
682	4	1	1	57	40	10000	0	0	0	0	0	0	0	0	0	0
683	1	1	1	58	6	10000	0	0	0	0	0	0	0	0	0	0
684	1	1	1	58	6	10000	0	0	0	0	0	0	0	0	0	0
685	1	1	1	58	7	10000	0	0	0	0	0	0	0	0	0	0
686	1	1	1	58	7	10000	0	0	0	0	0	0	0	0	0	0
687	1	1	1	56	7	10000	0	0	0	0	0	0	0	0	0	0
688	1	1	1	58	7	10000	0	0	0	0	0	0	0	0	0	0
689	1	1	1	58	7	10000	0	0	0	0	0	0	0	0	0	0
690	1	1	1	58	7	10000	0	0	0	0	0	0	0	0	0	0
691	1	1	1	58	7	10000	0	0	0	0	0	0	0	0	0	0
692	1	1	1	58	15	10000	0	0	0	0	0	0	0	0	0	0
693	1	1	1	59	6	10000	0	0	0	0	0	0	0	0	0	0
694	1	1	1	59	6	10000	0	0	0	0	0	0	0	0	0	0
695	1	1	1	59	7	10000	0	0	0	0	0	0	0	0	0	0
696	1	1	1	59	7	10000	0	0	0	0	0	0	0	0	0	0
697	1	1	1	59	7	10000	0	0	0	0	0	0	0	0	0	0
698	1	1	1	59	7	10000	0	0	0	0	0	0	0	0	0	0
699	1	1	1	59	7	10000	0	0	0	0	0	0	0	0	0	0
700	1	1	1	59	7	10000	0	0	0	0	0	0	0	0	0	0
701	1	1	1	59	7	10000	0	0	0	0	0	0	0	0	0	0
702	1	1	1	59	15	10000	0	0	0	0	0	0	0	0	0	0
703	1	1	1	60	6	10000	0	0	0	0	0	0	0	0	0	0
704	1	1	1	60	6	10000	0	0	0	0	0	0	0	0	0	0
705	1	1	1	60	7	10000	0	0	0	0	0	0	0	0	0	0
706	1	1	1	60	7	10000	0	0	0	0	0	0	0	0	0	0
707	1	1	1	60	7	10000	0	0	0	0	0	0	0	0	0	0
708	1	1	1	60	7	10000	0	0	0	0	0	0	0	0	0	0
709	1	1	1	60	7	10000	0	0	0	0	0	0	0	0	0	0
710	1	1	1	60	7	10000	0	0	0	0	0	0	0	0	0	0
711	1	1	1	60	7	10000	0	0	0	0	0	0	0	0	0	0
712	1	1	1	60	15	10000	0	0	0	0	0	0	0	0	0	0
713	1	1	1	61	6	10000	0	0	0	0	0	0	0	0	0	0
714	1	1	1	61	6	10000	0	0	0	0	0	0	0	0	0	0
715	1	1	1	61	7	10000	0	0	0	0	0	0	0	0	0	0
716	1	1	1	61	7	10000	0	0	0	0	0	0	0	0	0	0
717	1	1	1	61	7	10000	0	0	0	0	0	0	0	0	0	0
718	1	1	1	61	7	10000	0	0	0	0	0	0	0	0	0	0
719	1	1	1	61	7	10000	0	0	0	0	0	0	0	0	0	0
720	1	1	1	61	7	10000	0	0	0	0	0	0	0	0	0	0
721	1	1	1	61	15	10000	0	0	0	0	0	0	0	0	0	0
722	1	1	1	61	15	10000	0	0	0	0	0	0	0	0	0	0
723	1	1	1	62	6	10000	0	0	0	0	0	0	0	0	0	0
724	1	1	1	62	6	10000	0	0	0	0	0	0	0	0	0	0
725	1	1	1	62	7	10000	0	0	0	0	0	0	0	0	0	0
726	1	1	1	62	7	10000	0	0	0	0	0	0	0	0	0	0
727	1	1	1	62	7	10000	0	0	0	0	0	0	0	0	0	0
728	1	1	1	62	7	10000	0	0	0	0	0	0	0	0	0	0

Listing 9. ITRUCK Array (Cont'd)

TRUCK	TYPE	MISSION	STATUS	OWNER	MIX	LOAD	NEXT	FAIL	KNIR1	KNIR2	KNIR3	KNIR4	KNIR5	KNIR6	KNIR7	KNIR8
729	1	1	1	62	7	10000	0	0	0	0	0	0	0	0	0	0
730	1	1	1	62	7	10000	0	0	0	0	0	0	0	0	0	0
731	1	1	1	62	7	10000	0	0	0	0	0	0	0	0	0	0
732	1	1	1	62	15	10000	0	0	0	0	0	0	0	0	0	0
733	1	1	1	63	6	10000	0	0	0	0	0	0	0	0	0	0
734	1	1	1	63	6	10000	0	0	0	0	0	0	0	0	0	0
735	1	1	1	63	7	10000	0	0	0	0	0	0	0	0	0	0
736	1	1	1	63	7	10000	0	0	0	0	0	0	0	0	0	0
737	1	1	1	63	7	10000	0	0	0	0	0	0	0	0	0	0
738	1	1	1	63	7	10000	0	0	0	0	0	0	0	0	0	0
739	1	1	1	63	7	10000	0	0	0	0	0	0	0	0	0	0
740	1	1	1	63	7	10000	0	0	0	0	0	0	0	0	0	0
741	1	1	1	63	7	10000	0	0	0	0	0	0	0	0	0	0
742	1	1	1	63	15	10000	0	0	0	0	0	0	0	0	0	0
743	1	1	1	64	10	10000	0	0	0	0	0	0	0	0	0	0
744	1	1	1	64	10	10000	0	0	0	0	0	0	0	0	0	0
745	1	1	1	64	10	10000	0	0	0	0	0	0	0	0	0	0
746	1	1	1	64	10	10000	0	0	0	0	0	0	0	0	0	0
747	1	1	1	64	10	10000	0	0	0	0	0	0	0	0	0	0
748	1	1	1	64	10	10000	0	0	0	0	0	0	0	0	0	0
749	1	1	1	64	10	10000	0	0	0	0	0	0	0	0	0	0
750	1	1	1	64	10	10000	0	0	0	0	0	0	0	0	0	0
751	1	1	1	64	10	10000	0	0	0	0	0	0	0	0	0	0
752	1	1	1	64	10	10000	0	0	0	0	0	0	0	0	0	0
753	1	1	1	64	40	10000	0	0	0	0	0	0	0	0	0	0
754	1	1	1	64	40	10000	0	0	0	0	0	0	0	0	0	0
755	1	1	1	64	40	10000	0	0	0	0	0	0	0	0	0	0
756	1	1	1	64	40	10000	0	0	0	0	0	0	0	0	0	0
757	1	1	1	64	40	10000	0	0	0	0	0	0	0	0	0	0
758	1	1	1	64	40	10000	0	0	0	0	0	0	0	0	0	0
759	1	1	1	64	40	10000	0	0	0	0	0	0	0	0	0	0
760	1	1	1	64	40	10000	0	0	0	0	0	0	0	0	0	0
761	1	1	1	65	10	10000	0	0	0	0	0	0	0	0	0	0
762	1	1	1	65	10	10000	0	0	0	0	0	0	0	0	0	0
763	1	1	1	65	10	10000	0	0	0	0	0	0	0	0	0	0
764	1	1	1	65	10	10000	0	0	0	0	0	0	0	0	0	0
765	1	1	1	65	10	10000	0	0	0	0	0	0	0	0	0	0
766	1	1	1	65	10	10000	0	0	0	0	0	0	0	0	0	0
767	1	1	1	65	10	10000	0	0	0	0	0	0	0	0	0	0
768	1	1	1	65	10	10000	0	0	0	0	0	0	0	0	0	0
769	1	1	1	65	10	10000	0	0	0	0	0	0	0	0	0	0
770	1	1	1	65	10	10000	0	0	0	0	0	0	0	0	0	0
771	1	1	1	65	40	10000	0	0	0	0	0	0	0	0	0	0
772	1	1	1	65	40	10000	0	0	0	0	0	0	0	0	0	0
773	1	1	1	65	40	10000	0	0	0	0	0	0	0	0	0	0
774	1	1	1	65	40	10000	0	0	0	0	0	0	0	0	0	0
775	1	1	1	65	40	10000	0	0	0	0	0	0	0	0	0	0
776	1	1	1	65	40	10000	0	0	0	0	0	0	0	0	0	0
777	1	1	1	65	40	10000	0	0	0	0	0	0	0	0	0	0
778	1	1	1	65	40	10000	0	0	0	0	0	0	0	0	0	0
779	1	1	1	66	10	10000	0	0	0	0	0	0	0	0	0	0
780	1	1	1	66	10	10000	0	0	0	0	0	0	0	0	0	0
781	1	1	1	66	10	10000	0	0	0	0	0	0	0	0	0	0
782	1	1	1	66	10	10000	0	0	0	0	0	0	0	0	0	0
783	1	1	1	66	10	10000	0	0	0	0	0	0	0	0	0	0
784	1	1	1	66	10	10000	0	0	0	0	0	0	0	0	0	0

\*\*\*\*\* TRUCK DATA \*\*\*\*\*

TRUCK	TYPE	MISSION	STATUS	OWNER	MIX	R	LOAD	NEXT	FAIL	KNIR1	KNIR2	KNIR3	KNIR4	KNIR5	KNIR6	KNIR7	KNIR8
785	4	1	1	66	10	10000	0	0	0	0	0	0	0	0	0	0	0
786	4	1	1	66	10	10000	0	0	0	0	0	0	0	0	0	0	0
787	4	1	1	66	10	10000	0	0	0	0	0	0	0	0	0	0	0
788	4	1	1	66	40	10000	0	0	0	0	0	0	0	0	0	0	0
789	4	1	1	66	40	10000	0	0	0	0	0	0	0	0	0	0	0
790	4	1	1	66	40	10000	0	0	0	0	0	0	0	0	0	0	0
791	4	1	1	66	40	10000	0	0	0	0	0	0	0	0	0	0	0
792	4	1	1	66	40	10000	0	0	0	0	0	0	0	0	0	0	0
793	4	1	1	66	40	10000	0	0	0	0	0	0	0	0	0	0	0
794	4	1	1	66	40	10000	0	0	0	0	0	0	0	0	0	0	0
795	4	1	1	66	40	10000	0	0	0	0	0	0	0	0	0	0	0
796	4	1	1	66	40	10000	0	0	0	0	0	0	0	0	0	0	0
797	1	1	1	67	18	10000	0	0	0	0	0	0	0	0	0	0	0
798	1	1	1	67	18	10000	0	0	0	0	0	0	0	0	0	0	0
799	1	1	1	68	18	10000	0	0	0	0	0	0	0	0	0	0	0
800	1	1	1	68	18	10000	0	0	0	0	0	0	0	0	0	0	0
801	1	1	1	69	18	10000	0	0	0	0	0	0	0	0	0	0	0
802	1	1	1	69	18	10000	0	0	0	0	0	0	0	0	0	0	0
803	1	1	1	70	18	10000	0	0	0	0	0	0	0	0	0	0	0
804	1	1	1	71	18	10000	0	0	0	0	0	0	0	0	0	0	0
805	1	1	1	71	18	10000	0	0	0	0	0	0	0	0	0	0	0
806	1	1	1	72	9	10000	0	0	0	0	0	0	0	0	0	0	0
807	1	1	1	72	9	10000	0	0	0	0	0	0	0	0	0	0	0
808	1	1	1	72	9	10000	0	0	0	0	0	0	0	0	0	0	0
809	1	1	1	72	9	10000	0	0	0	0	0	0	0	0	0	0	0
810	1	1	1	72	9	10000	0	0	0	0	0	0	0	0	0	0	0
811	1	1	1	72	9	10000	0	0	0	0	0	0	0	0	0	0	0
812	1	1	1	72	14	10000	0	0	0	0	0	0	0	0	0	0	0
813	1	1	1	73	9	10000	0	0	0	0	0	0	0	0	0	0	0
814	1	1	1	73	9	10000	0	0	0	0	0	0	0	0	0	0	0
815	1	1	1	73	9	10000	0	0	0	0	0	0	0	0	0	0	0
816	1	1	1	73	9	10000	0	0	0	0	0	0	0	0	0	0	0
817	1	1	1	73	9	10000	0	0	0	0	0	0	0	0	0	0	0
818	1	1	1	73	14	10000	0	0	0	0	0	0	0	0	0	0	0
819	1	1	1	74	9	10000	0	0	0	0	0	0	0	0	0	0	0
820	1	1	1	74	9	10000	0	0	0	0	0	0	0	0	0	0	0
821	1	1	1	74	9	10000	0	0	0	0	0	0	0	0	0	0	0
822	1	1	1	74	9	10000	0	0	0	0	0	0	0	0	0	0	0
823	1	1	1	74	9	10000	0	0	0	0	0	0	0	0	0	0	0
824	1	1	1	74	14	10000	0	0	0	0	0	0	0	0	0	0	0
825	1	1	1	74	9	10000	0	0	0	0	0	0	0	0	0	0	0
826	6	5	3	0	91	10000	0	0	0	0	0	0	0	0	0	0	0
827	6	5	3	0	91	10000	0	0	0	0	0	0	0	0	0	0	0
828	6	5	3	0	91	10000	0	0	0	0	0	0	0	0	0	0	0
829	6	5	3	0	91	10000	0	0	0	0	0	0	0	0	0	0	0
830	6	5	3	0	91	10000	0	0	0	0	0	0	0	0	0	0	0
831	6	5	3	0	91	10000	0	0	0	0	0	0	0	0	0	0	0
832	6	5	3	0	91	10000	0	0	0	0	0	0	0	0	0	0	0
833	6	5	3	0	91	10000	0	0	0	0	0	0	0	0	0	0	0
834	6	5	3	0	91	10000	0	0	0	0	0	0	0	0	0	0	0
835	6	5	3	0	91	10000	0	0	0	0	0	0	0	0	0	0	0
836	5	2	2	76	61	10000	0	0	0	0	0	0	0	0	0	0	0
837	5	2	2	76	61	10000	0	0	0	0	0	0	0	0	0	0	0
838	5	2	2	76	61	10000	0	0	0	0	0	0	0	0	0	0	0
839	5	2	2	76	62	10000	0	0	0	0	0	0	0	0	0	0	0
840	5	2	2	76	62	10000	0	0	0	0	0	0	0	0	0	0	0

\*\*\*\*\* TRUCK DATA \*\*\*\*\*

TRUCK	TYPE	MISSION	STATUS	OWNER	MIX	K	LOAD	NEXT	FAIL	KNIR1	KNIR2	KNIR3	4NTR4	4NTR5	KNIR6	KNIR7	KNIR8
841	5	2	2	76	63	10000	0	0	0	0	0	0	0	0	0	0	0
842	5	2	2	76	63	10000	0	0	0	0	0	0	0	0	0	0	0
843	5	2	2	76	63	10000	0	0	0	0	0	0	0	0	0	0	0
844	5	2	2	76	63	10000	0	0	0	0	0	0	0	0	0	0	0
845	5	2	2	76	64	10000	0	0	0	0	0	0	0	0	0	0	0
846	5	2	2	76	64	10000	0	0	0	0	0	0	0	0	0	0	0
847	5	2	2	76	65	10000	0	0	0	0	0	0	0	0	0	0	0
848	5	2	2	76	65	10000	0	0	0	0	0	0	0	0	0	0	0
849	5	2	2	76	65	10000	0	0	0	0	0	0	0	0	0	0	0
850	5	2	2	76	65	10000	0	0	0	0	0	0	0	0	0	0	0
851	5	2	2	76	80	10000	0	0	0	0	0	0	0	0	0	0	0
852	5	2	4	76	80	10000	0	0	0	0	0	0	0	0	0	0	0
853	5	2	4	76	61	10000	0	0	0	0	0	0	0	0	0	0	0
854	5	2	4	76	61	10000	0	0	0	0	0	0	0	0	0	0	0
855	5	2	4	76	62	10000	0	0	0	0	0	0	0	0	0	0	0
856	5	2	4	76	62	10000	0	0	0	0	0	0	0	0	0	0	0
857	5	2	4	76	63	10000	0	0	0	0	0	0	0	0	0	0	0
858	5	2	4	76	63	10000	0	0	0	0	0	0	0	0	0	0	0
859	5	2	4	76	63	10000	0	0	0	0	0	0	0	0	0	0	0
860	5	2	4	76	64	10000	0	0	0	0	0	0	0	0	0	0	0
861	5	2	4	76	65	10000	0	0	0	0	0	0	0	0	0	0	0
862	5	2	4	76	65	10000	0	0	0	0	0	0	0	0	0	0	0
863	5	2	4	76	65	10000	0	0	0	0	0	0	0	0	0	0	0
864	5	2	4	76	65	10000	0	0	0	0	0	0	0	0	0	0	0
865	5	2	2	76	U	10000	0	0	0	0	0	0	0	0	0	0	0
866	5	2	2	77	61	10000	0	0	0	0	0	0	0	0	0	0	0
867	5	2	2	77	61	10000	0	0	0	0	0	0	0	0	0	0	0
868	5	2	2	77	61	10000	0	0	0	0	0	0	0	0	0	0	0
869	5	2	2	77	62	10000	0	0	0	0	0	0	0	0	0	0	0
870	5	2	2	77	62	10000	0	0	0	0	0	0	0	0	0	0	0
871	5	2	2	77	63	10000	0	0	0	0	0	0	0	0	0	0	0
872	5	2	2	77	63	10000	0	0	0	0	0	0	0	0	0	0	0
873	5	2	2	77	63	10000	0	0	0	0	0	0	0	0	0	0	0
874	5	2	2	77	63	10000	0	0	0	0	0	0	0	0	0	0	0
875	5	2	2	77	63	10000	0	0	0	0	0	0	0	0	0	0	0
876	5	2	2	77	64	10000	0	0	0	0	0	0	0	0	0	0	0
877	5	2	2	77	64	10000	0	0	0	0	0	0	0	0	0	0	0
878	5	2	2	77	65	10000	0	0	0	0	0	0	0	0	0	0	0
879	5	2	2	77	65	10000	0	0	0	0	0	0	0	0	0	0	0
880	5	2	2	77	65	10000	0	0	0	0	0	0	0	0	0	0	0
881	5	2	2	77	80	10000	0	0	0	0	0	0	0	0	0	0	0
882	5	2	4	77	80	10000	0	0	0	0	0	0	0	0	0	0	0
883	5	2	4	77	61	10000	0	0	0	0	0	0	0	0	0	0	0
884	5	2	4	77	61	10000	0	0	0	0	0	0	0	0	0	0	0
885	5	2	4	77	62	10000	0	0	0	0	0	0	0	0	0	0	0
886	5	2	4	77	62	10000	0	0	0	0	0	0	0	0	0	0	0
887	5	2	4	77	63	10000	0	0	0	0	0	0	0	0	0	0	0
888	5	2	4	77	63	10000	0	0	0	0	0	0	0	0	0	0	0
889	5	2	4	77	63	10000	0	0	0	0	0	0	0	0	0	0	0
890	5	2	4	77	64	10000	0	0	0	0	0	0	0	0	0	0	0
891	5	2	4	77	65	10000	0	0	0	0	0	0	0	0	0	0	0
892	5	2	4	77	65	10000	0	0	0	0	0	0	0	0	0	0	0
893	5	2	4	77	65	10000	0	0	0	0	0	0	0	0	0	0	0
894	5	2	4	77	65	10000	0	0	0	0	0	0	0	0	0	0	0
895	5	2	2	77	U	10000	0	0	0	0	0	0	0	0	0	0	0
896	5	2	2	78	61	10000	0	0	0	0	0	0	0	0	0	0	0

Listing 9. ITRUCK Array (Cont'd)

\*\*\*\*\* TRUCK DATA \*\*\*\*\*

TRUCK	TYPE	MISSION	STATUS	OWNER	MIX	E	LOAD	NEXT	FAIL	KN181	KN182	KN183	KN184	KN185	KN186	KN187	KN188
841	5	2	2	76	63	10000	0	0	0	0	0	0	0	0	0	0	0
842	5	2	2	76	63	10000	0	0	0	0	0	0	0	0	0	0	0
843	5	2	2	76	63	10000	0	0	0	0	0	0	0	0	0	0	0
844	5	2	2	76	63	10000	0	0	0	0	0	0	0	0	0	0	0
845	5	2	2	76	63	10000	0	0	0	0	0	0	0	0	0	0	0
846	5	2	2	76	64	10000	0	0	0	0	0	0	0	0	0	0	0
847	5	2	2	76	65	10000	0	0	0	0	0	0	0	0	0	0	0
848	5	2	2	76	65	10000	0	0	0	0	0	0	0	0	0	0	0
849	5	2	2	76	65	10000	0	0	0	0	0	0	0	0	0	0	0
850	5	2	2	76	65	10000	0	0	0	0	0	0	0	0	0	0	0
851	5	2	2	76	80	10000	0	0	0	0	0	0	0	0	0	0	0
852	5	2	2	76	80	10000	0	0	0	0	0	0	0	0	0	0	0
853	5	2	2	76	61	10000	0	0	0	0	0	0	0	0	0	0	0
854	5	2	2	76	61	10000	0	0	0	0	0	0	0	0	0	0	0
855	5	2	2	76	62	10000	0	0	0	0	0	0	0	0	0	0	0
856	5	2	2	76	62	10000	0	0	0	0	0	0	0	0	0	0	0
857	5	2	2	76	63	10000	0	0	0	0	0	0	0	0	0	0	0
858	5	2	2	76	63	10000	0	0	0	0	0	0	0	0	0	0	0
859	5	2	2	76	63	10000	0	0	0	0	0	0	0	0	0	0	0
860	5	2	2	76	64	10000	0	0	0	0	0	0	0	0	0	0	0
861	5	2	2	76	65	10000	0	0	0	0	0	0	0	0	0	0	0
862	5	2	2	76	65	10000	0	0	0	0	0	0	0	0	0	0	0
863	5	2	2	76	65	10000	0	0	0	0	0	0	0	0	0	0	0
864	5	2	2	76	65	10000	0	0	0	0	0	0	0	0	0	0	0
865	5	2	2	76	61	10000	0	0	0	0	0	0	0	0	0	0	0
866	5	2	2	77	61	10000	0	0	0	0	0	0	0	0	0	0	0
867	5	2	2	77	61	10000	0	0	0	0	0	0	0	0	0	0	0
868	5	2	2	77	61	10000	0	0	0	0	0	0	0	0	0	0	0
869	5	2	2	77	62	10000	0	0	0	0	0	0	0	0	0	0	0
870	5	2	2	77	62	10000	0	0	0	0	0	0	0	0	0	0	0
871	5	2	2	77	63	10000	0	0	0	0	0	0	0	0	0	0	0
872	5	2	2	77	63	10000	0	0	0	0	0	0	0	0	0	0	0
873	5	2	2	77	63	10000	0	0	0	0	0	0	0	0	0	0	0
874	5	2	2	77	63	10000	0	0	0	0	0	0	0	0	0	0	0
875	5	2	2	77	64	10000	0	0	0	0	0	0	0	0	0	0	0
876	5	2	2	77	64	10000	0	0	0	0	0	0	0	0	0	0	0
877	5	2	2	77	65	10000	0	0	0	0	0	0	0	0	0	0	0
878	5	2	2	77	65	10000	0	0	0	0	0	0	0	0	0	0	0
879	5	2	2	77	65	10000	0	0	0	0	0	0	0	0	0	0	0
880	5	2	2	77	65	10000	0	0	0	0	0	0	0	0	0	0	0
881	5	2	2	77	80	10000	0	0	0	0	0	0	0	0	0	0	0
882	5	2	2	77	80	10000	0	0	0	0	0	0	0	0	0	0	0
883	5	2	2	77	61	10000	0	0	0	0	0	0	0	0	0	0	0
884	5	2	2	77	61	10000	0	0	0	0	0	0	0	0	0	0	0
885	5	2	2	77	62	10000	0	0	0	0	0	0	0	0	0	0	0
886	5	2	2	77	62	10000	0	0	0	0	0	0	0	0	0	0	0
887	5	2	2	77	63	10000	0	0	0	0	0	0	0	0	0	0	0
888	5	2	2	77	63	10000	0	0	0	0	0	0	0	0	0	0	0
889	5	2	2	77	63	10000	0	0	0	0	0	0	0	0	0	0	0
890	5	2	2	77	64	10000	0	0	0	0	0	0	0	0	0	0	0
891	5	2	2	77	65	10000	0	0	0	0	0	0	0	0	0	0	0
892	5	2	2	77	65	10000	0	0	0	0	0	0	0	0	0	0	0
893	5	2	2	77	65	10000	0	0	0	0	0	0	0	0	0	0	0
894	5	2	2	77	65	10000	0	0	0	0	0	0	0	0	0	0	0
895	5	2	2	77	65	10000	0	0	0	0	0	0	0	0	0	0	0
896	5	2	2	78	61	10000	0	0	0	0	0	0	0	0	0	0	0

Listing 9. ITRUCK Array (Cont'd)

\*\*\*\*\* TRUCK DATA \*\*\*\*\*

TRUCK	TYPE	MISSION	STATUS	OWNER	MIX	LOAD	WEIGHT	FAIR	KNIR1	KNIR2	KNIR3	KNIR4	KNIR5	KNIR6	KNIR7	KNIR8
897	5	2	2	78	61	10000	0	0	0	0	0	0	0	0	0	0
898	5	2	2	78	61	10000	0	0	0	0	0	0	0	0	0	0
899	5	2	2	78	62	10000	0	0	0	0	0	0	0	0	0	0
900	5	2	2	78	62	10000	0	0	0	0	0	0	0	0	0	0
901	5	2	2	78	63	10000	0	0	0	0	0	0	0	0	0	0
902	5	2	2	78	63	10000	0	0	0	0	0	0	0	0	0	0
903	5	2	2	78	63	10000	0	0	0	0	0	0	0	0	0	0
904	5	2	2	78	63	10000	0	0	0	0	0	0	0	0	0	0
905	5	2	2	78	64	10000	0	0	0	0	0	0	0	0	0	0
906	5	2	2	78	64	10000	0	0	0	0	0	0	0	0	0	0
907	5	2	2	78	65	10000	0	0	0	0	0	0	0	0	0	0
908	5	2	2	78	65	10000	0	0	0	0	0	0	0	0	0	0
909	5	2	2	78	65	10000	0	0	0	0	0	0	0	0	0	0
910	5	2	2	78	65	10000	0	0	0	0	0	0	0	0	0	0
911	5	2	2	78	80	10000	0	0	0	0	0	0	0	0	0	0
912	5	2	4	78	80	10000	0	0	0	0	0	0	0	0	0	0
913	5	2	4	78	61	10000	0	0	0	0	0	0	0	0	0	0
914	5	2	4	78	61	10000	0	0	0	0	0	0	0	0	0	0
915	5	2	4	78	62	10000	0	0	0	0	0	0	0	0	0	0
916	5	2	4	78	62	10000	0	0	0	0	0	0	0	0	0	0
917	5	2	4	78	63	10000	0	0	0	0	0	0	0	0	0	0
918	5	2	4	78	63	10000	0	0	0	0	0	0	0	0	0	0
919	5	2	4	78	63	10000	0	0	0	0	0	0	0	0	0	0
920	5	2	4	78	63	10000	0	0	0	0	0	0	0	0	0	0
921	5	2	4	78	65	10000	0	0	0	0	0	0	0	0	0	0
922	5	2	4	78	65	10000	0	0	0	0	0	0	0	0	0	0
923	5	2	4	78	65	10000	0	0	0	0	0	0	0	0	0	0
924	5	2	4	78	65	10000	0	0	0	0	0	0	0	0	0	0
925	5	2	4	78	65	10000	0	0	0	0	0	0	0	0	0	0
926	5	2	2	79	66	10000	0	0	0	0	0	0	0	0	0	0
927	5	2	2	79	66	10000	0	0	0	0	0	0	0	0	0	0
928	5	2	2	79	67	10000	0	0	0	0	0	0	0	0	0	0
929	5	2	2	79	67	10000	0	0	0	0	0	0	0	0	0	0
930	5	2	2	79	67	10000	0	0	0	0	0	0	0	0	0	0
931	5	2	2	79	68	10000	0	0	0	0	0	0	0	0	0	0
932	5	2	2	79	68	10000	0	0	0	0	0	0	0	0	0	0
933	5	2	2	79	68	10000	0	0	0	0	0	0	0	0	0	0
934	5	2	2	79	80	10000	0	0	0	0	0	0	0	0	0	0
935	5	2	2	79	69	10000	0	0	0	0	0	0	0	0	0	0
936	5	2	2	79	69	10000	0	0	0	0	0	0	0	0	0	0
937	5	2	2	79	69	10000	0	0	0	0	0	0	0	0	0	0
938	5	2	2	79	69	10000	0	0	0	0	0	0	0	0	0	0
939	5	2	2	79	70	10000	0	0	0	0	0	0	0	0	0	0
940	5	2	2	79	70	10000	0	0	0	0	0	0	0	0	0	0
941	5	2	2	79	70	10000	0	0	0	0	0	0	0	0	0	0
942	5	2	2	79	70	10000	0	0	0	0	0	0	0	0	0	0
943	5	2	2	79	70	10000	0	0	0	0	0	0	0	0	0	0
944	5	2	4	79	66	10000	0	0	0	0	0	0	0	0	0	0
945	5	2	4	79	66	10000	0	0	0	0	0	0	0	0	0	0
946	5	2	4	79	67	10000	0	0	0	0	0	0	0	0	0	0
947	5	2	4	79	67	10000	0	0	0	0	0	0	0	0	0	0
948	5	2	4	79	67	10000	0	0	0	0	0	0	0	0	0	0
949	5	2	4	79	68	10000	0	0	0	0	0	0	0	0	0	0
950	5	2	4	79	68	10000	0	0	0	0	0	0	0	0	0	0
951	5	2	4	79	80	10000	0	0	0	0	0	0	0	0	0	0
952	5	2	4	79	69	10000	0	0	0	0	0	0	0	0	0	0

UNCLASSIFIED \*\*\*\*\*

\*\*\*\*\* TRUCK DATA \*\*\*\*\*

TRUCK	TYPE	MISSION	STATUS	OWNER	MIX	LOAD	NEXT	FAIL	KNIR1	KNIR2	KNIR3	KNIR4	KNIR5	KNIR6	KNIR7	KNIR8
953	S	2	4	79	69	10000			0	0	0	0	0	0	0	0
954	S	2	4	79	70	10000			0	0	0	0	0	0	0	0
955	S	2	4	79	70	10000			0	0	0	0	0	0	0	0
956	S	2	4	79	70	10000			0	0	0	0	0	0	0	0
957	S	2	4	79	70	10000			0	0	0	0	0	0	0	0
958	S	2	4	79	70	10000			0	0	0	0	0	0	0	0
959	S	2	2	79	0	10000			0	0	0	0	0	0	0	0
960	S	2	2	79	0	10000			0	0	0	0	0	0	0	0
961	S	2	2	80	66	10000			0	0	0	0	0	0	0	0
962	S	2	2	80	66	10000			0	0	0	0	0	0	0	0
963	S	2	2	80	67	10000			0	0	0	0	0	0	0	0
964	S	2	2	80	67	10000			0	0	0	0	0	0	0	0
965	S	2	2	80	67	10000			0	0	0	0	0	0	0	0
966	S	2	2	80	68	10000			0	0	0	0	0	0	0	0
967	S	2	2	80	68	10000			0	0	0	0	0	0	0	0
968	S	2	2	80	68	10000			0	0	0	0	0	0	0	0
969	S	2	2	80	80	10000			0	0	0	0	0	0	0	0
970	S	2	2	80	66	10000			0	0	0	0	0	0	0	0
971	S	2	2	80	67	10000			0	0	0	0	0	0	0	0
972	S	2	2	80	68	10000			0	0	0	0	0	0	0	0
973	S	2	2	80	70	10000			0	0	0	0	0	0	0	0
974	S	2	2	80	70	10000			0	0	0	0	0	0	0	0
975	S	2	2	80	70	10000			0	0	0	0	0	0	0	0
976	S	2	2	80	70	10000			0	0	0	0	0	0	0	0
977	S	2	2	80	70	10000			0	0	0	0	0	0	0	0
978	S	2	2	80	70	10000			0	0	0	0	0	0	0	0
979	S	2	4	80	66	10000			0	0	0	0	0	0	0	0
980	S	2	4	80	66	10000			0	0	0	0	0	0	0	0
981	S	2	4	80	67	10000			0	0	0	0	0	0	0	0
982	S	2	4	80	67	10000			0	0	0	0	0	0	0	0
983	S	2	4	80	67	10000			0	0	0	0	0	0	0	0
984	S	2	4	80	68	10000			0	0	0	0	0	0	0	0
985	S	2	4	80	68	10000			0	0	0	0	0	0	0	0
986	S	2	4	80	68	10000			0	0	0	0	0	0	0	0
987	S	2	4	80	80	10000			0	0	0	0	0	0	0	0
988	S	2	4	80	70	10000			0	0	0	0	0	0	0	0
989	S	2	4	80	70	10000			0	0	0	0	0	0	0	0
990	S	2	4	80	70	10000			0	0	0	0	0	0	0	0
991	S	2	4	80	70	10000			0	0	0	0	0	0	0	0
992	S	2	4	80	70	10000			0	0	0	0	0	0	0	0
993	S	2	4	80	70	10000			0	0	0	0	0	0	0	0
994	S	2	2	80	0	10000			0	0	0	0	0	0	0	0
995	S	2	2	80	0	10000			0	0	0	0	0	0	0	0
996	S	2	2	81	61	10000			0	0	0	0	0	0	0	0
997	S	2	2	81	61	10000			0	0	0	0	0	0	0	0
998	S	2	2	81	61	10000			0	0	0	0	0	0	0	0
999	S	2	2	81	63	10000			0	0	0	0	0	0	0	0
1000	S	2	2	81	63	10000			0	0	0	0	0	0	0	0
1001	S	2	2	81	64	10000			0	0	0	0	0	0	0	0
1002	S	2	2	81	65	10000			0	0	0	0	0	0	0	0
1003	S	2	2	81	65	10000			0	0	0	0	0	0	0	0
1004	S	2	2	81	65	10000			0	0	0	0	0	0	0	0
1005	S	2	2	81	80	10000			0	0	0	0	0	0	0	0
1006	S	2	8	81	61	10000			0	0	0	0	0	0	0	0
1007	S	2	8	81	62	10000			0	0	0	0	0	0	0	0
1008	S	2	8	81	63	10000			0	0	0	0	0	0	0	0

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\*\*\*\*\* ITRUCK DATA \*\*\*\*\*

ITRUCK	TYPE	MISSION	STATUS	OWNER	MIX	LOAD	WENT	FAIL	KNTR1	KNTR2	KNTR3	KNTR4	KNTR5	KNTR6	KNTR7	KNTR8
1009	S	2	8	81	63	10000	0	0	0	0	0	0	0	0	0	0
1010	S	2	8	81	64	10000	0	0	0	0	0	0	0	0	0	0
1011	S	2	8	81	64	10000	0	0	0	0	0	0	0	0	0	0
1012	S	2	8	81	65	10000	0	0	0	0	0	0	0	0	0	0
1013	S	2	8	81	65	10000	0	0	0	0	0	0	0	0	0	0
1014	S	2	8	81	65	10000	0	0	0	0	0	0	0	0	0	0
1015	S	2	8	81	65	10000	0	0	0	0	0	0	0	0	0	0
1016	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1017	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1018	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1019	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1020	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1021	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1022	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1023	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1024	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1025	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1026	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1027	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1028	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1029	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1030	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1031	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1032	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1033	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1034	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1035	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1036	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1037	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1038	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1039	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1040	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1041	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1042	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1043	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1044	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1045	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1046	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1047	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1048	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1049	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1050	S	0	0	0	0	10000	0	0	0	0	0	0	0	0	0	0
1051	S	3	8	130	61	10000	0	0	0	0	0	0	0	0	0	0
1052	S	3	8	130	62	10000	0	0	0	0	0	0	0	0	0	0
1053	S	3	8	130	63	10000	0	0	0	0	0	0	0	0	0	0
1054	S	3	8	130	63	10000	0	0	0	0	0	0	0	0	0	0
1055	S	3	8	130	63	10000	0	0	0	0	0	0	0	0	0	0
1056	S	3	8	130	63	10000	0	0	0	0	0	0	0	0	0	0
1057	S	3	8	130	64	10000	0	0	0	0	0	0	0	0	0	0
1058	S	3	8	130	64	10000	0	0	0	0	0	0	0	0	0	0
1059	S	3	8	130	65	10000	0	0	0	0	0	0	0	0	0	0
1060	S	3	8	130	65	10000	0	0	0	0	0	0	0	0	0	0
1061	S	3	8	130	65	10000	0	0	0	0	0	0	0	0	0	0
1062	S	3	8	130	65	10000	0	0	0	0	0	0	0	0	0	0
1063	S	3	8	130	65	10000	0	0	0	0	0	0	0	0	0	0
1064	S	3	8	130	65	10000	0	0	0	0	0	0	0	0	0	0



\*\*\*\*\* TRUCK DATA \*\*\*\*\*

TRUCK	TYPE	MISSION	STATUS	OWNER	MIX	I	LOAD	WELL	FAIL	KNIR1	KNIR2	KNIR3	KNIR4	KNIR5	KNIR6	KNIR7	KNIR8
1065	5	3	8	130	66	10000	0	0	0	0	0	0	0	0	0	0	0
1066	5	3	8	130	67	10000	0	0	0	0	0	0	0	0	0	0	0
1067	5	3	8	130	67	10000	0	0	0	0	0	0	0	0	0	0	0
1068	5	3	8	130	67	10000	0	0	0	0	0	0	0	0	0	0	0
1069	5	3	8	130	67	10000	0	0	0	0	0	0	0	0	0	0	0
1070	5	3	8	130	67	10000	0	0	0	0	0	0	0	0	0	0	0
1071	5	3	8	130	67	10000	0	0	0	0	0	0	0	0	0	0	0
1072	5	3	8	130	68	10000	0	0	0	0	0	0	0	0	0	0	0
1073	5	3	8	130	68	10000	0	0	0	0	0	0	0	0	0	0	0
1074	5	3	8	130	68	10000	0	0	0	0	0	0	0	0	0	0	0
1075	5	3	8	130	69	10000	0	0	0	0	0	0	0	0	0	0	0
1076	5	3	8	130	69	10000	0	0	0	0	0	0	0	0	0	0	0
1077	5	3	8	130	70	10000	0	0	0	0	0	0	0	0	0	0	0
1078	5	3	8	130	70	10000	0	0	0	0	0	0	0	0	0	0	0
1079	5	3	8	130	70	10000	0	0	0	0	0	0	0	0	0	0	0
1080	5	3	8	130	70	10000	0	0	0	0	0	0	0	0	0	0	0
1081	5	3	8	130	70	10000	0	0	0	0	0	0	0	0	0	0	0
1082	5	3	8	130	70	10000	0	0	0	0	0	0	0	0	0	0	0
1083	5	3	8	130	70	10000	0	0	0	0	0	0	0	0	0	0	0
1084	5	3	8	130	70	10000	0	0	0	0	0	0	0	0	0	0	0
1085	5	3	8	130	70	10000	0	0	0	0	0	0	0	0	0	0	0
1086	5	3	8	130	70	10000	0	0	0	0	0	0	0	0	0	0	0
1087	5	3	8	130	70	10000	0	0	0	0	0	0	0	0	0	0	0
1088	5	3	8	130	70	10000	0	0	0	0	0	0	0	0	0	0	0
1089	5	3	8	130	70	10000	0	0	0	0	0	0	0	0	0	0	0
1090	5	3	8	130	70	10000	0	0	0	0	0	0	0	0	0	0	0
1091	5	3	8	130	70	10000	0	0	0	0	0	0	0	0	0	0	0
1092	5	3	8	130	70	10000	0	0	0	0	0	0	0	0	0	0	0
1093	5	3	8	130	70	10000	0	0	0	0	0	0	0	0	0	0	0
1094	5	3	8	130	70	10000	0	0	0	0	0	0	0	0	0	0	0
1095	5	3	8	130	70	10000	0	0	0	0	0	0	0	0	0	0	0
1096	5	3	8	130	70	10000	0	0	0	0	0	0	0	0	0	0	0
1097	5	3	8	130	70	10000	0	0	0	0	0	0	0	0	0	0	0
1098	5	3	8	130	71	10000	0	0	0	0	0	0	0	0	0	0	0
1099	5	3	8	130	71	10000	0	0	0	0	0	0	0	0	0	0	0
1100	5	3	8	130	72	10000	0	0	0	0	0	0	0	0	0	0	0
1101	5	3	8	130	73	10000	0	0	0	0	0	0	0	0	0	0	0
1102	5	3	8	130	74	10000	0	0	0	0	0	0	0	0	0	0	0
1103	5	3	8	130	75	10000	0	0	0	0	0	0	0	0	0	0	0
1104	5	3	8	130	76	10000	0	0	0	0	0	0	0	0	0	0	0
1105	5	3	8	130	77	10000	0	0	0	0	0	0	0	0	0	0	0
1106	5	3	8	130	78	10000	0	0	0	0	0	0	0	0	0	0	0
1107	5	3	8	130	80	10000	0	0	0	0	0	0	0	0	0	0	0
1108	5	3	8	130	63	10000	0	0	0	0	0	0	0	0	0	0	0
1109	5	3	8	130	63	10000	0	0	0	0	0	0	0	0	0	0	0
1110	5	3	8	130	64	10000	0	0	0	0	0	0	0	0	0	0	0
1111	5	3	8	131	61	10000	0	0	0	0	0	0	0	0	0	0	0
1112	5	3	8	131	62	10000	0	0	0	0	0	0	0	0	0	0	0
1113	5	3	8	131	63	10000	0	0	0	0	0	0	0	0	0	0	0
1114	5	3	8	131	63	10000	0	0	0	0	0	0	0	0	0	0	0
1115	5	3	8	131	63	10000	0	0	0	0	0	0	0	0	0	0	0
1116	5	3	8	131	63	10000	0	0	0	0	0	0	0	0	0	0	0
1117	5	3	8	131	64	10000	0	0	0	0	0	0	0	0	0	0	0
1118	5	3	8	131	64	10000	0	0	0	0	0	0	0	0	0	0	0
1119	5	3	8	131	65	10000	0	0	0	0	0	0	0	0	0	0	0
1120	5	3	8	131	65	10000	0	0	0	0	0	0	0	0	0	0	0

UNCLASSIFIED  
\*\*\*\*\* ITRUCK DATA \*\*\*\*\*

ITRUCK	TYPE	MISSION	STATUS	OWNER	MIX	LOAD	HEX	FAIL	KNTR1	KNTR2	KNTR3	KNTR4	KNTR5	KNTR6	KNTR7	KNTR8
1121	5	3	0	131	65	10000		0	0	0	0	0	0	0	0	0
1122	5	3	0	131	65	10000		0	0	0	0	0	0	0	0	0
1123	5	3	0	131	65	10000		0	0	0	0	0	0	0	0	0
1124	5	3	0	131	65	10000		0	0	0	0	0	0	0	0	0
1125	5	3	0	131	66	10000		0	0	0	0	0	0	0	0	0
1126	5	3	0	131	67	10000		0	0	0	0	0	0	0	0	0
1127	5	3	0	131	67	10000		0	0	0	0	0	0	0	0	0
1128	5	3	0	131	67	10000		0	0	0	0	0	0	0	0	0
1129	5	3	0	131	67	10000		0	0	0	0	0	0	0	0	0
1130	5	3	0	131	67	10000		0	0	0	0	0	0	0	0	0
1131	5	3	0	131	67	10000		0	0	0	0	0	0	0	0	0
1132	5	3	0	131	68	10000		0	0	0	0	0	0	0	0	0
1133	5	3	0	131	68	10000		0	0	0	0	0	0	0	0	0
1134	5	3	0	131	69	10000		0	0	0	0	0	0	0	0	0
1135	5	3	0	131	69	10000		0	0	0	0	0	0	0	0	0
1136	5	3	0	131	69	10000		0	0	0	0	0	0	0	0	0
1137	5	3	0	131	70	10000		0	0	0	0	0	0	0	0	0
1138	5	3	0	131	70	10000		0	0	0	0	0	0	0	0	0
1139	5	3	0	131	70	10000		0	0	0	0	0	0	0	0	0
1140	5	3	0	131	70	10000		0	0	0	0	0	0	0	0	0
1141	5	3	0	131	70	10000		0	0	0	0	0	0	0	0	0
1142	5	3	0	131	70	10000		0	0	0	0	0	0	0	0	0
1143	5	3	0	131	70	10000		0	0	0	0	0	0	0	0	0
1144	5	3	0	131	70	10000		0	0	0	0	0	0	0	0	0
1145	5	3	0	131	70	10000		0	0	0	0	0	0	0	0	0
1146	5	3	0	131	70	10000		0	0	0	0	0	0	0	0	0
1147	5	3	0	131	70	10000		0	0	0	0	0	0	0	0	0
1148	5	3	0	131	70	10000		0	0	0	0	0	0	0	0	0
1149	5	3	0	131	70	10000		0	0	0	0	0	0	0	0	0
1150	5	3	0	131	70	10000		0	0	0	0	0	0	0	0	0
1151	5	3	0	131	70	10000		0	0	0	0	0	0	0	0	0
1152	5	3	0	131	70	10000		0	0	0	0	0	0	0	0	0
1153	5	3	0	131	70	10000		0	0	0	0	0	0	0	0	0
1154	5	3	0	131	70	10000		0	0	0	0	0	0	0	0	0
1155	5	3	0	131	70	10000		0	0	0	0	0	0	0	0	0
1156	5	3	0	131	70	10000		0	0	0	0	0	0	0	0	0
1157	5	3	0	131	70	10000		0	0	0	0	0	0	0	0	0
1158	5	3	0	131	71	10000		0	0	0	0	0	0	0	0	0
1159	5	3	0	131	71	10000		0	0	0	0	0	0	0	0	0
1160	5	3	0	131	72	10000		0	0	0	0	0	0	0	0	0
1161	5	3	0	131	73	10000		0	0	0	0	0	0	0	0	0
1162	5	3	0	131	74	10000		0	0	0	0	0	0	0	0	0
1163	5	3	0	131	75	10000		0	0	0	0	0	0	0	0	0
1164	5	3	0	131	76	10000		0	0	0	0	0	0	0	0	0
1165	5	3	0	131	77	10000		0	0	0	0	0	0	0	0	0
1166	5	3	0	131	78	10000		0	0	0	0	0	0	0	0	0
1167	5	3	0	131	80	10000		0	0	0	0	0	0	0	0	0
1168	5	3	0	131	81	10000		0	0	0	0	0	0	0	0	0
1169	5	3	0	131	83	10000		0	0	0	0	0	0	0	0	0
1170	5	3	0	131	88	10000		0	0	0	0	0	0	0	0	0
1171	5	0	0	0	0	10000		0	0	0	0	0	0	0	0	0
1172	5	0	0	0	0	10000		0	0	0	0	0	0	0	0	0
1173	5	0	0	0	0	10000		0	0	0	0	0	0	0	0	0
1174	5	0	0	0	0	10000		0	0	0	0	0	0	0	0	0
1175	5	0	0	0	0	10000		0	0	0	0	0	0	0	0	0
1176	5	0	0	0	0	10000		0	0	0	0	0	0	0	0	0

Listing 9. ITRUCK Array (Cont'd)

UNCLASSIFIED \*\*\*\*\* ITRUCK DATA \*\*\*\*\*

\*\*\*\*\* TRUCK DATA \*\*\*\*\*

TRUCK	TYPE	MISSION	STATUS	OWNER	MIX	LOAD	NEXT	FAIL	KNIR1	KNIR2	KNIR3	KNIR4	KNIR5	KNIR6	KNIR7	KNIR8
1177	S	D	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1178	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1179	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1180	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1181	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1182	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1183	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1184	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1185	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1186	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1187	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1188	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1189	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1190	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1191	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1192	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1193	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1194	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1195	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1196	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1197	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1198	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1199	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1200	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1201	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1202	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1203	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1204	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1205	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1206	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1207	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1208	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1209	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1210	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1211	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1212	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1213	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1214	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1215	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1216	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1217	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1218	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1219	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1220	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1221	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1222	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1223	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1224	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1225	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1226	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1227	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1228	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1229	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1230	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1231	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0
1232	S	U	U	U	U	10000	0	0	0	0	0	0	0	0	0	0

TRUCK	TYPE	MISSION	STATUS	OWNER	MIX	1	LOAD	NEXT	FAIL	MNIR1	MNIR2	MNIR3	MNIR4	MNIR5	MNIR6	MNIR7	MNIR8
1233	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1234	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1235	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1236	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1237	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1238	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1239	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1240	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1241	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1242	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1243	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1244	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1245	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1246	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1247	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1248	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1249	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1250	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1251	9	6	1	116	0	0	0	0	0	0	0	0	0	0	0	0	0
1252	9	6	1	116	0	0	0	0	0	0	0	0	0	0	0	0	0
1253	9	6	1	116	0	0	0	0	0	0	0	0	0	0	0	0	0
1254	8	6	1	116	0	0	0	0	0	0	0	0	0	0	0	0	0
1255	8	6	1	116	0	0	0	0	0	0	0	0	0	0	0	0	0
1256	8	6	1	116	0	0	0	0	0	0	0	0	0	0	0	0	0
1257	8	6	1	116	0	0	0	0	0	0	0	0	0	0	0	0	0
1258	9	6	1	117	0	0	0	0	0	0	0	0	0	0	0	0	0
1259	9	6	1	117	0	0	0	0	0	0	0	0	0	0	0	0	0
1260	9	6	1	117	0	0	0	0	0	0	0	0	0	0	0	0	0
1261	8	6	1	117	0	0	0	0	0	0	0	0	0	0	0	0	0
1262	8	6	1	117	0	0	0	0	0	0	0	0	0	0	0	0	0
1263	8	6	1	117	0	0	0	0	0	0	0	0	0	0	0	0	0
1264	8	6	1	117	0	0	0	0	0	0	0	0	0	0	0	0	0
1265	9	6	1	116	0	0	0	0	0	0	0	0	0	0	0	0	0
1266	9	6	1	116	0	0	0	0	0	0	0	0	0	0	0	0	0
1267	9	6	1	116	0	0	0	0	0	0	0	0	0	0	0	0	0
1268	8	6	1	118	0	0	0	0	0	0	0	0	0	0	0	0	0
1269	8	6	1	118	0	0	0	0	0	0	0	0	0	0	0	0	0
1270	8	6	1	118	0	0	0	0	0	0	0	0	0	0	0	0	0
1271	8	6	1	118	0	0	0	0	0	0	0	0	0	0	0	0	0
1272	9	6	1	119	0	0	0	0	0	0	0	0	0	0	0	0	0
1273	9	6	1	119	0	0	0	0	0	0	0	0	0	0	0	0	0
1274	9	6	1	119	0	0	0	0	0	0	0	0	0	0	0	0	0
1275	8	6	1	119	0	0	0	0	0	0	0	0	0	0	0	0	0
1276	8	6	1	119	0	0	0	0	0	0	0	0	0	0	0	0	0
1277	8	6	1	119	0	0	0	0	0	0	0	0	0	0	0	0	0
1278	8	6	1	119	0	0	0	0	0	0	0	0	0	0	0	0	0
1279	9	6	1	120	0	0	0	0	0	0	0	0	0	0	0	0	0
1280	9	6	1	120	0	0	0	0	0	0	0	0	0	0	0	0	0
1281	9	6	1	120	0	0	0	0	0	0	0	0	0	0	0	0	0
1282	8	6	1	120	0	0	0	0	0	0	0	0	0	0	0	0	0
1283	8	6	1	120	0	0	0	0	0	0	0	0	0	0	0	0	0
1284	8	6	1	120	0	0	0	0	0	0	0	0	0	0	0	0	0
1285	8	6	1	120	0	0	0	0	0	0	0	0	0	0	0	0	0
1286	8	6	1	121	0	0	0	0	0	0	0	0	0	0	0	0	0
1287	8	6	1	121	0	0	0	0	0	0	0	0	0	0	0	0	0
1288	8	6	1	121	0	0	0	0	0	0	0	0	0	0	0	0	0

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\*\*\*\*\* TRUCK DATA \*\*\*\*\*

TRUCK	TYPE	MISSION	STATUS	OWNER	MIX	LOAD	NEXT	FAIL	ANIR1	KNIR2	ANIR1	ANIR2	ANIR3	ANIR4	ANIR5	ANIR6	ANIR7	ANIR8
1289	8	6	1	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1290	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1291	9	7	1	156	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1292	9	7	1	156	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1293	9	7	1	156	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1294	9	7	1	156	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1295	8	7	1	156	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1296	8	7	1	156	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1297	8	7	1	156	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1298	8	7	1	156	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1299	8	7	1	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1300	8	7	1	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1301	9	7	1	157	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1302	9	7	1	157	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1303	9	7	1	157	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1304	8	7	1	157	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1305	8	7	1	157	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1306	8	7	1	157	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1307	8	7	1	157	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1308	8	7	1	157	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1309	8	7	1	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1310	8	7	1	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1311	9	7	1	158	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1312	9	7	1	158	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1313	8	7	1	158	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1314	8	7	1	158	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1315	8	7	1	158	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1316	8	7	1	158	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1317	8	7	1	158	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1318	8	7	1	158	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1319	8	7	1	161	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1320	8	7	1	161	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1321	9	7	1	159	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1322	9	7	1	159	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1323	9	7	1	159	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1324	8	7	1	159	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1325	8	7	1	159	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1326	8	7	1	159	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1327	8	7	1	159	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1328	8	7	1	159	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1329	8	7	1	161	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1330	8	7	1	161	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1331	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1332	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1334	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1335	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1336	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1337	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1338	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1339	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1340	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1341	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1342	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1343	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1344	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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\*\*\*\*\* TRUCK DATA \*\*\*\*\*

TRUCK	TYPE	MISSION	STATUS	OWNER	MIX	LOAD	NEAT	FAIL	KNIR1	KNIR2	KNIR3	KNIR4	KNIR5	KNIR6	KNIR7	KNIR8
1345	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1346	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1347	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1348	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1349	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1350	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1351	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1352	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1353	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1354	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1355	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1356	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1357	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1358	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1359	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1360	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1361	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1362	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1363	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1364	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1365	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1366	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1367	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1368	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1369	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1370	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1371	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1372	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1373	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1374	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1375	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1376	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1377	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1378	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1379	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1380	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1381	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1382	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1383	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1384	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1385	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1386	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1387	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1388	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1389	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1390	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1391	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1392	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1393	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1394	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1395	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1396	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1397	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1398	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1399	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1400	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U

(2) ITYPE(9,6). Listing 10 shows the ITYPE array. The nine truck types, corresponding to the truck type codes of Volume 1, Chapter 5, appear as a column down the left margin. Each truck type's six attributes are displayed in a row opposite the type. Truck type 1 will be examined. (Note - the first attributes for truck type 8 and 9 have been used to hold the standard deviation of MTTR for 5 and 10 ton trucks and for S & Ps, respectively.)

#### LISTING 10. ITYPE

\*\*\*\*\* TRUCK SPEEDS, MTBF, AND MTTR \*\*\*\*\*

TRUCK	2D NT	2D DAY	HI NT	HI DAY	MTBF	MTTR
1	16	21	16	30	4983	556
2	10	19	10	26	3292	490
3	10	19	10	26	3292	490
4	13	19	18	28	4260	473
5	14	18	14	21	1545	462
6	100	100	100	100	480	245
7	0	0	0	0	0	0
8	120	0	0	0	960	252
9	60	0	0	0	960	252

<u>Attribute</u>	<u>Value</u>	<u>Source(s)</u>
1. Secondary road night speed (unit to ASP, ATP) in KPH	16	h, e
2. Secondary road day speed	21	h, e
3. Highway night speed	16	h, e
4. Highway day speed	30	h, e
5. MTBF (mean time before failure) in MIN	4983	i
6. MTTR (mean time to repair) in MIN	556	i

(3) Truck Queues. Listing 11 shows the status of the truck queues at the beginning of the game. The trucks in each queue are entered as instructed in Chapter 5 of volume I. The queues are defined in chapter 10 of this volume. The listing consists of each queue number, in turn, followed by the numbers of all trucks in the queue or the word "none" if the queue is empty. The truck is assigned in accordance with the scenario and gamer decisions.

QUEUE 1	2	3	4	5	6	7	8	9	10	241	242	243	244	245	246	247	248	249	250
QUEUE 11	12	13	14	15	16	17	18	19	20	241	242	243	244	245	246	247	248	249	250
QUEUE 21	22	23	24	25	26	27	28	29	30	251	252	253	254	255	256	257	258	259	260
QUEUE 31	32	33	34	35	36	37	38	39	40	261	262	263	264	265	266	267	268	269	270
QUEUE 41	42	43	44	45	46	47	48	49	50	271	272	273	274	275	276	277	278	279	280
QUEUE 51	52	53	54	55	56	57	58	59	60	281	282	283	284	285	286	287	288	289	290
QUEUE 61	62	63	64	65	66	67	68	69	70	291	292	293	294	295	296	297	298	299	300
QUEUE 71	72	73	74	75	76	77	78	79	80	301	302	303	304	305	306	307	308	309	310
QUEUE 81	82	83	84	85	86	87	88	89	90	311	312	313	314	315	316	317	318	319	320
QUEUE 91	92	93	94	95	96	97	98	99	100	321	322	323	324	325	326	327	328	329	330
QUEUE 101	102	103	104	105	106	107	108	109	110	331	332	333	334	335	336	337	338	339	340
QUEUE 111	112	113	114	115	116	117	118	119	120	341	342	343	344	345	346	347	348	349	350
QUEUE 121	122	123	124	125	126	127	128	129	130	351	352	353	354	355	356	357	358	359	360
QUEUE 131	132	133	134	135	136	137	138	139	140	361	362	363	364	365	366	367	368	369	370
QUEUE 141	142	143	144	145	146	147	148	149	150	371	372	373	374	375	376	377	378	379	380
QUEUE 151	152	153	154	155	156	157	158	159	160	381	382	383	384	385	386	387	388	389	390
QUEUE 161	162	163	164	165	166	167	168	169	170	391	392	393	394	395	396	397	398	399	400
QUEUE 171	172	173	174	175	176	177	178	179	180	401	402	403	404	405	406	407	408	409	410
QUEUE 181	182	183	184	185	186	187	188	189	190	411	412	413	414	415	416	417	418	419	420
QUEUE 191	192	193	194	195	196	197	198	199	200	421	422	423	424	425	426	427	428	429	430
QUEUE 201	202	203	204	205	206	207	208	209	210	431	432	433	434	435	436	437	438	439	440
QUEUE 211	212	213	214	215	216	217	218	219	220	441	442	443	444	445	446	447	448	449	450
QUEUE 221	222	223	224	225	226	227	228	229	230	451	452	453	454	455	456	457	458	459	460
QUEUE 231	232	233	234	235	236	237	238	239	240	461	462	463	464	465	466	467	468	469	470
QUEUE 241	242	243	244	245	246	247	248	249	250	471	472	473	474	475	476	477	478	479	480
QUEUE 251	252	253	254	255	256	257	258	259	260	481	482	483	484	485	486	487	488	489	490
QUEUE 261	262	263	264	265	266	267	268	269	270	491	492	493	494	495	496	497	498	499	500



434 435 436 437 438 439 440 441 442 443									
444 445 446									
447 448 449 450 451 452 453 454 455 456	CUQUE 35 TRUCKS	451 452 453 454 455 456							
457 458 459 460 461 462 463 464									
465 466 467 468 469 470 471 472 473 474	CUQUE 40 TRUCKS	469 470 471 472 473 474							
475 476 477									
478 479 480 481 482 483 484 485 486 487	CUQUE 41 TRUCKS	482 483 484 485 486 487							
488 489 490									
491 492 493 494 495 496 497 498 499 500	CUQUE 42 TRUCKS	495 496 497 498 499 500							
501 502 503 504 505 506 507 508									
509 510 511 512 513 514 515 516	CUQUE 43 TRUCKS	513 514 515 516							
517 518 519 520 521 522 523 524 525 526	CUQUE 44 TRUCKS	523 524 525 526							
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547 548 549 550 551 552 553 554 555 556	CUQUE 47 TRUCKS	553 554 555 556							
557 558 559 560 561 562 563 564 565 566	CUQUE 48 TRUCKS	563 564 565 566							
567 568 569 570 571 572 573 574 575	CUQUE 49 TRUCKS	573 574 575							
576 577 578 579 580 581 582 583 584 585	CUQUE 50 TRUCKS	583 584 585							
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609 610 611 612 613 614 615 616 617 618	CUQUE 53 TRUCKS	613 614 615 616 617 618							
619 620 621 622 623 624 625 626 627 628	CUQUE 54 TRUCKS	623 624 625 626 627 628							
629 630 631 632 633 634 635 636 637 638	CUQUE 55 TRUCKS	633 634 635 636 637 638							
639 640 641 642 643 644 645 646									
647 648 649 650 651 652 653 654 655 656	CUQUE 56 TRUCKS	651 652 653 654 655 656							



QUEUE 131 TRUCKS NONE	QUEUE 155 TRUCKS NONE	QUEUE 170 TRUCKS NONE
QUEUE 136 TRUCKS NONE	QUEUE 156 TRUCKS 1291 1292 1293 1294 1295 1296 1297 1298	
QUEUE 137 TRUCKS NONE	QUEUE 157 TRUCKS 13 1 1322 1301 1304 1305 1306 1307 1308	
QUEUE 137 TRUCKS NONE	QUEUE 158 TRUCKS 1311 1312 1313 1314 1315 1316 1317 1318	
QUEUE 139 TRUCKS NONE	QUEUE 159 TRUCKS 1-21 1312 1323 1324 1325 1326 1327 1328	
QUEUE 140 TRUCKS NONE	QUEUE 160 TRUCKS 1255 1302 1305 1310	
QUEUE 141 TRUCKS NONE	QUEUE 161 TRUCKS 1315 1320 1325 1330	
QUEUE 142 TRUCKS NONE	QUEUE 162 TRUCKS NONE	
QUEUE 143 TRUCKS NONE	QUEUE 163 TRUCKS NONE	
QUEUE 144 TRUCKS NONE	QUEUE 164 TRUCKS NONE	
QUEUE 145 TRUCKS NONE	QUEUE 165 TRUCKS NONE	
QUEUE 146 TRUCKS NONE	QUEUE 166 TRUCKS NONE	
QUEUE 147 TRUCKS NONE	QUEUE 167 TRUCKS NONE	
QUEUE 148 TRUCKS NONE	QUEUE 168 TRUCKS NONE	
QUEUE 149 TRUCKS NONE	QUEUE 169 TRUCKS NONE	
QUEUE 150 TRUCKS NONE	QUEUE 170 TRUCKS NONE	
QUEUE 151 TRUCKS NONE	QUEUE 171 TRUCKS NONE	
QUEUE 152 TRUCKS NONE	QUEUE 172 TRUCKS NONE	
QUEUE 153 TRUCKS NONE	QUEUE 173 TRUCKS NONE	
QUEUE 154 TRUCKS NONE	QUEUE 174 TRUCKS NONE	

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## 7. Ammo Data.

a. Overview. Most of the ARM interactive ammo data is contained in the array IMIX. This array describes both ammunition loads on trucks and the time it requires to load a truck.

b. Printout and Explanation. On Listing 12 is the IMIX array. Its dimensions are (91, 32). The 91 ammo mixes appear in the farthest left-hand column and the 30 ammo types or codes are displayed in rows. What looks to be ammo code 31 and 32 is actually the load time in minutes at CSA/ATP and at the ASP. Mixes 1-30 are 10-ton mixes; 31-60, 5-ton mixes; 61-90, S&P mixes; and 91, helicopter mixes. Ammo mix 1 will be explained.

<u>Attribute</u>	<u>Value</u>	<u>Source(s)</u>
1. Rounds of ammo type 1 on truck	240	b, h, e
2-30. Rounds of ammo type 2-30 on truck	0	b, h, e
31. Load time at CSA/ATP	24	j
32. Load time at ASP	30	j





## 8. Data Input by Operator.

a. Overview. To facilitate the running of ARM CIs it is quite valuable for the operator to have some type of an input sheet listing the variables to be entered/modified between CIs. An example of such a sheet that was applied to the first 15 CIs of this scenario appears on Listing 13.

b. Printouts and Explanations. Listing 13, Operator Input Sheet, consists of 8 columns, 2 each for CI, TCIST, IDAY, TCILING, 3 for INTER, and 2 for changes to be made prior to running a CI. Where a blank appears in a column, no action is to be taken relative to that variable. The three columns below INTER are for INTER(3), INTER(4), and INTER(7). Data sources for the variables have been given elsewhere in this documentation. Changes in the final column are necessitated by the scenario. A table, Listing 14, with the distances used for the Operator Input Sheet is also included. A blank distance indicates no change from the previous CI.

Listing 13. Operator Input Sheet

<u>CI</u>	<u>TCIST</u>	<u>INTER</u>	<u>IDAY</u>	<u>TCILING</u>	<u>CHANGE PRIOR TO RUNNING CI</u>
		3,4,7			
1	0	8,5,22	1	240	Change ASP 11-14 status to 1 (IASP(11,2); IASP(12,2), IASP(13,2), IASP(14,2) = 1).
2	240	7			FA tube units to 100% (units 17-36, EDIT option + 2).
3	480	4			Change ATP 6 distances to CSA, ASP (IATP(6,1) = 155, IATP(6,2) = 30).
4	720	2,3,80	0	360	
5	1080				Change ATP/ASP distances to CSA and servicing ASPs (IATP(1 thru 5,1) to 114, 113, 121, 121, 115. IATP(1 thru 5,2) to 10, 22, 25, 25, 15. Set ISERV(1) to 3, ISERV(7) to 150).
6	1440	6,5,25	1	240	Send ATP 6 S&Ps to ATPs 1 to 3 (EDIT option #3). Set ISERV(1) to 4, ISERV(7) to 150.
7	1680	9			
8	1920	7			
9	2160	3,3,60	0	360	



Listing 13. Operator Input Sheet (cont'd)

CI	TCIST	INTER	IDAY	TCILING	CHANGE PRIOR TO RUNNING CI
10	2520				Change ATP/ASP distances to CSA and servicing ASPs. Also change servicing ATPs. (IATP(1 thru 5,1) to 97, 103, 101, 90, 88. IATP (1 thru 5, 2) to 30, 27, 35, 20, 20. (IATP(1 thru 5,6) to 15, 16, 16, 15, 16. Set ISERV(1) = 3, ISERV(2) = 3, ISERV(7) = 150, ISERV(8) = 240.
11	2880	5,5,25	1	240	Set ISERV(1) = 4, ISERV(2) to 5, ISERV(7) = 150, ISERV(8) = 240. Close forward ASPs: IASP (1 thru 4,2) to -1.
12	3120	8			
13	3360	/			
14	3600	3,3,60	0	360	
15.	3960	4			

Listing 14. Distance Table.\*

ATP	CI				
	1	3	5	6	10
1	139/11-34		114/11-10		97/15-30
2	124/14-34		113/14-22		103/16-27
3	126/13-25		121/13-25		101/16-35
4	166/12-41		121/13-25		90/15-20
5			115/12-15		88/16-20
6	166/11-30	155/11-30			Close down

\* The values appearing as entries in the ATP section of the distance table are: (Distance to CSA/servicing ASP # - Distance to servicing ASP)

Listing 14. Distance Table. (Cont'd)

ASP	KM to CSA
11	109
12	107
13	98
14	98

9. Miscellaneous.

a. Overview. Several different variables/arrays will be addressed now. They include: IRSTME, INTER, ICSA, LPPAR, IDAY, TCIST, TCILNG, TIME, and LUOUT. They are explained in this chapter because they do not fit easily into one of the earlier categories. This is usually because they are either arrays which overlap two or more categories, or they are simply system parameters.

b. Printouts and Explanations.

(1) IRSTME(23,3). Listing 15 shows the IRSTME array. Twenty-three ammo type codes are listed in the first column. The three attributes for each code are shown as rows opposite the codes. Ammo type 1 is explained.

LISTING 15. IRSTME

	SETUP	LOAD/100	TRAVEL
1	6	75	20
2	6	125	20
3	0	0	0
4	2	50	8
5	2	50	8
6	3	100	8
7	3	100	8
8	0	0	0
9	3	100	5
10	5	15	10
11	2	50	8
12	2	50	8
13	2	50	8
14	3	5	5
15	3	100	8
16	6	25	16
17	6	1	16
18	3	15	20
19	0	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0

<u>Attribute</u>	<u>Value</u>	<u>Source(s)</u>
1. Weapons set-up time in minutes	6	j
2. Load time per round (min/1000)	.075	j
3. Travel time to weapon in minutes	20	j, a, e

(2) INTER(10). The INTER array is on Listing 16. It is essentially a single row; however, the tenth attribute appears below the first.

LISTING 16. INTER

\*\*\*\*\* INTERDICTION DATA \*\*\*\*\*

0        0        12        5        3600        720        22        10        0  
0

<u>Attribute</u>	<u>Value</u>	<u>Source(s)</u>
1. Counter for zone 1 trucks into INTRDK	0	c
2. Counter for zone 2 trucks into INTRDK	0	c
3. # trucks to be killed in zone 1	12	g
4. # trucks to be killed in zone 2	5	g
5. Time to replace truck in zone 1 (MIN)	3600	i, a, e
6. Time to replace truck in zone 2 (MIN)	720	i, a, e
7. Modulo of trucks killed in zone 1	22	e
8. Modulo of trucks killed in zone 2	10	e
9. # of zone 1 trucks entering INTRDK	0	c
10. # of zone 2 trucks entering INTRDK	0	c

(3) LPPAR(10). The LPPAR array is on Listing 17. The listing is comprised of a single row of ten values, explained as follows.

#### LISTING 17. LPPAR

\*\*\*\*\* LPPAR \*\*\*\*\*

20    10    3        1400        10        5        30        60        0        0

<u>Attribute</u>	<u>Value</u>	<u>Source(s)</u>
1. Total number of ammo codes	20	a, e
2. Number of ammo codes at ATP	10	j
3. Number of maneuver unit ammo codes at ATP (3)	3	j
4. Number of transports (trucks)	1400	a, b
5. Number of helicopters available	10	a
6. Number of ammo types at units	5	a, e
7. Number to subtract from 5-ton mix to get ammo type	20	d, e
8. Number to subtract from S&P mix to get ammo type	60	d, e
9-10. Not used	0	c

(4). IDAY, TCIST, TCILNG, TIME, LUOUT. These variables are system parameters, shown on Listing 18 in a single row and defined below.

#### LISTING 18. Miscellaneous Data

\*\*\*\*\* MISC DATA \*\*\*\*\*

IDAY = 1    TCIST = .0005    TCILNG = 240.00    TIME = 0    LUOUT = 2

<u>Attribute</u>	<u>Value</u>	<u>Source(s)</u>
1. IDAY	1	a
2. TCIST	.0005	e
3. TCILNG	240	a
4. TIME	0	c
5. LUOUT	2	e

## 10. ARM Codes and Tables.

a. Overview. These codes/tables are numerical values established by the ARM user during the building of an initial data base. These values are used to set various parameters within several of the ARM arrays. They have previously been listed in Volume I and are repeated here because of the many references to them as the source for a data value. It should be remembered that each code or table is only one of many which could have been constructed for this particular data base and may or may not apply to another.

### b. Codes and Tables.

#### (1) Unit Type Codes.

<u>Code</u>	<u>Unit Type</u>
1	Tank Task Force
2	Mechanized Tank Force
3	Armored Cavalry Squadron
4	155 Artillery Battery
5	8-inch Artillery Battery
6	MLRS Battery
7	DIVAD Gun Platoon
8	Combat Aviation Platoon

#### (2) Truck Type Codes.

<u>Code</u>	<u>Truck Type</u>
1	10 ton
2	5 ton
3	5 ton with a 1 1/2 ton trailer
4	10 ton with a 10 ton trailer (MLRS)
5	20 ton S&P
6	Helicopter
7	Goer
8	Rough terrain forklift
9	Crane

(3) Truck Mission Type Codes.

<u>Code</u>	<u>Mission Type</u>
1	Unit truck
2	CSA-ATP link
3	CSA-ASP link
4	ASP-ATP link
5	ASP-unit (helicopters)
6	ATP server
7	ASP server
8	Not used
9	Bumped to rear of system ASP

(4) Truck Status Type Codes.

<u>Code</u>	<u>Status Type</u>
1	In unit queue - or available if truck is acting as server
2	In ATP queue
3	In ASP queue
4	In transit-or busy if truck is acting as server
5	Unit truck going from ASP - server moving to new location
6	Truck awaiting repair
7	Truck dead (interdicted)
8	In CSA queue
9	Bumped to 2d ASP - server of interdicted ASP/ATP

(5) Queue list.

<u>Truck Queue</u>	<u>Queue Type</u>	<u>Description</u>
1-75	1	At each unit
76-85	2	At ATPs for CSA-ATP S&Ps
86-95	3	At ATPs for ASP-ATP S&Ps
96-105	4	At ATPs for unit artillery server
106-115	5	At ATPs for unit maneuver server
116-125	6	At ATPs for servers
126-135	7	At ASPs for CSA-ASP S&Ps
136-145	8	At ASPs for routine unit trucks
146-155	9	At ASPs for MLRS unit trucks
156-165	10	At ASPs for servers
166-175	11	At ASPs for ASP-ATP S&Ps
176	12	At CSA for CSA S&Ps

(6) Ammo Type Codes

<u>Code</u>	<u>Ammo Type</u>
1	105mm (M-60 A3/XM1)
2	TOW
3	Powder canisters (for 155mm FA)
4	155mm HE
5	155mm ICM DP
6	2 inch HE
7	8-inch ICM DP
8	8-inch powder
9	Hellfire



(6) Ammo Type Codes (cont'd)

<u>Code</u>	<u>Ammo Type</u>
10	MLRS
11	155mm RAP
12	155mm CLGP
13	155mm smoke
14	30mm AAH
15	8-inch RAP
16	Mortar
17	Bushmaster
18	DIVAD
19	Small arms
20	Fuzes

## 11. Sources of Data.

a. SCORES Europe III, 2A and 2A Extended Scenario. For forces, weapons, and ammo employed and their geographic positioning. (Note: logistics is not now played in the SCORES process.)

b. FM-101-10-1; Staff Officers' Field Manual; Organizational, Technical and Logistic Data. (Unclassified Data). Contains a great variety of useful data, including: TOEs, numbers of trucks and weapons in units, weights/round, rounds/weapon, vehicle speeds, and ammo supply levels.

c. Value initialized to zero. These are usually values that the program will update as the game continues.

d. Value set according to ARM code or table. These tables are set up by the gamer and have been defined in the preceding chapter of this documentation.

e. Gamer decision. Either the direct application of military judgement or a gamer calculation.

f. Value set according to doctrine. This value conforms to generally accepted doctrine as defined in the appropriate FM.

g. Value from war game output. This is produced by the wargame or scenario and then input to ARM.

h. US Army Transportation School. The most up-to-date source of truck types, numbers, capacities, and speeds.

i. US Army Logistics Center. The most recent source for load/unload times and repair/breakdown rates.

j. US Army Missile and Munitions Centers and Schools. Supplied data used to originally support the CSSMAA: distances from units to supply points; supply point locations, numbers, stockage and load times.

**END**

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